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Enroute Chart - AlQ568 Full Route NavData cycle 2024-06 Expired: 19 Jun 2024 Scale: 1:11542212 (1 inch = 158.30 naut mi). Printed on 12 Apr 2025 (c) JEPPESEN SANDERSON, INC., 2025, ALL RIGHTS RESERVED



JeppView for Windows







JEPPESEN JeppView for Windows

General Information

Location: BANGKOK THA ICAO/IATA: VTBD / DMK Lat/Long: N13° 54.9', E100° 36.3' Elevation: 9 ft

Airport Use: Public Daylight Savings: Not Observed UTC Conversion: -7:00 = UTC Magnetic Variation: 0.6° W

Customs: Yes Airport Type: IFR Landing Fee: Yes Control Tower: Yes Jet Start Unit: No LLWS Alert: Yes Beacon: Yes

Sunrise: 2307 Z Sunset: 1131 Z

Runway Information

Runway: 03L Length x Width: 12139 ft x 197 ft Surface Type: asphalt TDZ-Elev: 7 ft Lighting: Edge, ALS, Centerline Stopway: 492 ft

Runway: 03R Length x Width: 11483 ft x 148 ft Surface Type: asphalt TDZ-Elev: 5 ft Lighting: Edge, ALS

Runway: 21L Length x Width: 11483 ft x 148 ft Surface Type: asphalt TDZ-Elev: 7 ft Lighting: Edge, ALS Displaced Threshold: 1148 ft Stopway: 328 ft Airport Information For VTBD Printed on 12 Apr 2025 Page 2 (c) JEPPESEN SANDERSON, INC., 2025, ALL RIGHTS RESERVED

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Runway: 21R Length x Width: 12139 ft x 197 ft Surface Type: asphalt TDZ-Elev: 7 ft Lighting: Edge, ALS, Centerline, TDZ Stopway: 492 ft

Communication Information

ATIS: 126.400 Arrival Service ATIS: 118.550 Departure Service Don Mueang Tower: 118.100 Don Mueang Ground: 122.500 Don Mueang Ground: 121.900 Don Mueang Clearance Delivery: 127.700 Bangkok Approach: 119.100 Bangkok Approach: 119.250 Don Mueang Approach: 119.400 Bangkok Approach: 124.350 Bangkok Approach: 121.100 Bangkok Approach: 120.300 Bangkok Approach: 125.200 Bangkok Approach: 126.300 Bangkok Approach: 133.400 Bangkok Approach: 122.350 Don Mueang Arrival: 133.000

		BANGKUK, IHAILAN
DON MUEANG INTL	10 MAY 24 10-1P	AIRPORT BRIEFIN
	GENERAL	
1.	LOW VISIBILITY PROCED	URES (LPV)
1.1 Rwy 21R is equipped with take-off (LVTO).	n ILS and is approved for CAT II o	perations and low visibility
1.2 Low visibility procedures	will be established when a visib	ility of less than RVR 550 M
or a cloud base of less th	han 200'.	
1.3 Rwy exist.	minned with CREEN/VELLOW and	
to indicate the bo	quipped with GREEN/TELLOW cod indary of the localizer sensitive a	ed faxiway centre line lights
1.3.2 Pilots should select	the first convenient exit and cor	ntinue on the Twy centre line
lead-off lights tow	vard to Twy B for a designated pa	rking stand.
1.3.3 The following route	restrictions shall be used during	low visibility operations.
a) When vacating a	on Twy O taxi route is O-B or O-N	1 and B.
b) When vacating (on Twy R taxi route is R-B.	
c) When vacating a	on Twy S taxi route is S-B.	
d) When vacating a	on Twy $C(S)$ taxi route is $C(S)$ -B.	
1.3.4 Pilots are required	to make a "RUNWAY VACATED"	call giving due allowance for
the size of the air sensitive area	cratt to ensure that the entire air	cratt has vacated the localizer
1.4 Rwy holding positions.		
1.4.1 Departing aircraft	are required to use the Twy D and	I B(N) which are CAT II
notaing positions.	ffs are not permitted	
1.5 CAT II approach and land	ing	
1.5.1 Pilots will be infor	med by ATIS or RTF when low visi	ibility procedures are in
1 5 2 Pilots must request	an IIS CAT II approach on first c	contact with Bangkok Approach
Pilots may carry ou	a practise ILS CAT II approach i	if traffic conditions permitted.
1.5.3 Aircraft will be ve	ctored to intercept the localizer a	at least 10 NM from touchdown.
1.5.4 Special procedures	and safeguarding will be applied	during CAT II operations to
protect aircraft ope signals in accordan	erating in low visibility and to av ce with ICAO DOC 9365: Manual	oid interference to the ILS of All-Weather Operations.
1.6 Low visibility take-off.		
Pilots wishing to conduc	t an ILS guided take-off shall info	orm ATC on start-up in order to
ensure that the protection	on of the localizer sensitive area	is provided.
1.7 Rwy 21L is not permitted	for landing and take-off in low v	isibility procedures.
	2. SPEED CONTROL	
2.1 All aircraft when flying	below 10,000' are subject to a sp	eed limitation of 250 KT
unless previously remove	ed by AIC.	an the intermediate annuals
2.2 Procedures required inal	speed reductions to within the ba	and 160 KT to 180 KT on or
shortly before closing he	ading to the ILS, and 160 KT whe	n established on the ILS to
final approach points; al	I speeds to be flown as accuratel	y as possible. Aircraft unable
to conform to these spee	eds should inform ATC and state v	vhat speed will be used.
2.3 At other times, speed co	ntrol may be applied on a tactica	I basis to the extent
determined by the Kadar	Controller. Pilots unable to controller.	orm to speed specified by
2 4 ATC will notify that the	aircraft may keen its preferred s	ng what speeds WIII be used.
and will use the phrase	"NO (ATC) SPEED RESTRICTION	NS ["] . An instruction to notify
that the aircraft need no	longer comply with the previous	ly issued speed restriction,
the phrase "RESUME NO	ORMAL SPEED will be used.	
NOTE: AN INSTRUCTION TO '	resume normal speed" does not (acted by the speed restrictions that
		and or right, all clair Shall

comply with the speed restrictions specified in 2.1, 2.2 and 2.3.
2.5 Except as detailed in 2.1, 2.2 and 2.3, all aircraft navigating under conditions of RNAV (GNSS) SIDs/STARs shall conform to speed limitation as published in the procedures.

 GENERAL (CONTD) 2.6 En-route holding and Initial Approach Waypoint (IAWP) holding will be in accordance with ICAO standard holding: MOCHI, BATOK, GOMES, RYN, JASSY, PASTA, TARDY, OSUKA, TL, NOBER. Note 2: IAWP holding: ARONS, CAROS, DANNY, NAUTY, SILVA, CABIN, DAREN, GIPSY, NUMAN, TERRY. 3. NOISE ABATEMENT PROCEDURES In order to alleviate problems of noise within the vicinity of Bangkok/Don Mueang Intl Airport, the noise abatement procedures in accordance with ICAO DOC 8168-078-611 (PAN-OPS) shall be applied for all take-off and landings. 3.1 Departure Procedures 7. NOISE abatement procedures listed below for all take-offs: 3.1.1 Proce adopt one of the two procedures listed below for all take-offs: 3.1.1 Proce adopt one of the two procedures listed below for all take-offs: 3.1.2 The initial climb speed to the noise abatement prower/thrust schedule. 3.1.1.2 The initial climb speed to the noise abatement power/thrust schedule. MAINTAIN a climb speed of V2 plus 10 to 20 kt with flaps and slats in the take-off configuration. 3.1.1.4 At no more than an altitude equivalent to 3000', while maintaining a positive rate of climb, accelerate and retract flaps/slats on schedule; at 3000' aniport elevation. 3.1.2 The initial climbing speed to the noise abatement proteint shall not be initiated at less than 800' above alirport elevation. 3.1.2 The initial climbing speed to the noise abatement procedule; at 3000' aniper flaps/slats on schedule; at 3000' aniper and reduce power with the nist altist of configuration. 3.1.2 The initial climbing speed to the noise abatement protecture schedule. MAINTAIN a climb speed to the noise abatement protecture schedule. 3.1.2 The initial climbing speed to the noise abatement protecture; schedule. 3.1.2 The initial cli	/TBD/DMK	JEPPESEN 10 MAY 24 (10-1P1)	BANGKUK, IMAILA AIRPORT BRIEFI
 2.6 En-route holding and Initial Approach Waypoint (IAWP) holding will be in accordance with ICAO standard holding speeds requirement. Note 1: En-route holding: MOCHI, BATOK, GOMES, RYN, JASSY, PASTA, TARDY, OSUKA, TI, NOBER. Note 2: IAWP holding: ARONS, CAROS, DANNY, NAUTY, SILVA, CABIN, DAREN, GIPSY, NUMAN, TERRY. 3. NOISE ABATEMENT PROCEDURES In order to alleviate problems of noise within the vicinity of Bangkok/Don Mueang Intl Airport, the noise abatement procedures in accordance with ICAO DOC 8168-078-611 (PAN-OPS) shall be applied for all take-off and landings. 3.1 Departure Procedures Pilots are to adopt one of the two procedures listed below for all take-offs: 3.1.1 The noise abatement procedures is not to be initiated at less than 800' above airport elevation. 3.1.1.2 The initial climb speed to the noise abatement power/thrust schedule. MAINTAIN a climb speed of V2 plus 10 to 20 kt with flaps and slats in the take-off configuration. 3.1.1.4 the omore than an altitude equivalent to 3000', while maintaining a positive rate of climb, accelerate and retract flaps/slats on schedule; at 3000' accelerate to enroute climb speed. 3.1.2 Procedure for alleviating noise distant from the airport: 3.1.3.1.4.1 the noise abatement procedure is not to be initiated at less than 800' above airport elevation. 3.1.2 Procedure for alleviating noise distant from the airport: 3.1.3.1.4.1 the noise abatement procedure is not to be initiated at less than 800' above airport elevation. 3.1.2.2 The initial climbing speed to the noise abatement initiation point is V2 plus 10 to 20 KT. 3.1.2.3 Cheathement procedure is not to be initiated at less than 800' above airport elevation. 3.1.2.4 Maintain a positive rate of climb and accelerate to maintain a climb speed of VZ plus 10 to 20 KT. On reaching 3000' transition to normal enroute climb speed to VZF plus 10 to 20 KT. On reaching 3000' transition to normal sin		GENERAL (CONTE))
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 3.1.2.2 The initial climbing speed to the noise abatement initiation point is V2 plus 10 to 20 KT. 3.1.2.3 On reaching an altitude equivalent to at least 800' decrease aircraft body angle/angle of pitch while maintaining a positive rate of climb. Accelerate towards VZF and reduce power with the initiation of the first flaps/slats retraction. 3.1.2.4 Maintain a positive rate of climb and accelerate to maintain a climb speed of VZF plus 10 to 20 KT. On reaching 3000' transition to normal enroute climb sp 3.2 Arrival Procedure Reverse thrust above idle shall not be used between 1800 and 2200 UTC, except for safety reasons. 4. APPROACH PROCEDURES WITH RADAR CONTROL 4.1 All procedures are designed to maximize departure and arrival capacity Bangkok Terminal Control Area and minimize noise disturbance in areas overflown. 4.2 The final approach may be carried out by means of ILS or other availabl instrument approach systems at the discretion of the pilot. 4.3 The spacing provided between aircraft will be designed to achieve maximum runway utilization within the parameters of safe separation minima including vortex effect and runway occupancy. It is important t the validity of the separation provided and the achievement of optimum consistent with the prevailing conditions. 4.4 The horizontal radar separation minimum shall be 5 NM except within Bangkok Terminal Control Area, Bangkok Control Zone and Don Mueang Aerodrome Traffic Zone, a reduced separation of 3 NM may be applied. 4.5 Missed approach procedures 4.5.1 As directed by ATC. 	3.1.2 Procedure for allev 3.1.2.1 The noise aba	viating noise distant from the airpor tement procedure is not to be initiat	t: ed at less than 800' above
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4.5 Missed approach procedures 4.5.1 As directed by ATC.	consistent with 1 4.4 The horizontal ra Bangkok Termina Aerodrome Traff	the prevailing conditions. Idar separation minimum shall b I Control Area, Bangkok Contro ic Zone, a reduced separation o	oe 5 NM except within I Zone and Don Mueang of 3 NM may be applied.
	4.5 Missed approach 4.5.1 As directed b	procedures y ATC.	

4.5.2 In the absence of instructions from ATC, aircraft shall follow the missed approach procedures which contained on the Instrument Approach Charts.

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5. STANDA	RD INSTRUMENT DEPARTU	IRES/ARRIVALS
Aircraft departing from	(KNAV SIDS/SIAKS)	tional Airport will pormally
be assigned the RNAV	SIDs/STARs.	
NOTE: Pilots o	f Non-RNAV equipped aircraft shall	inform ATC and request
for rada	r vectors.	•
6. SPEED CONTRO	L AND ALTITUDE RESTRICT	
IN BA	ANGKOK IERMINAL CONT	KOL AREA
morder to facilitate in within Rongkok Tormin	al Control Aroa speed control proce	aring and arriving aircraft
must be applied to opti	imize the spacing between aircraft a	and reduce the overall delay
of traffic.		
6.1 Speed control		
6.1.1 Speed control sha	all be in force at all times unless oth	nerwise instructed. Pilots
will be individua	Illy advised by ATC when speed cont	rol is cancelled.
o.i.z All departing and when flying at a	r an rving aircraft are to apply speed r below altitude of 10 000'	a of not more than 200 KT
6.1.3 Departing aircra	t shall comply with speed control re	estrictions as published in
the RNAV SIDs P	rocedures unless otherwise advised	by ATC.
6.1.4 Arriving aircraft	shall comply with speed control res	trictions as published on
the KNAV STARS	Charts and Instrument Approach Pro	ocedures unless otherwise
6.1.5 En route and tern	ninal holding speed shall be in accord	dance with ICAO standard
holding speeds re	equirement. Pilots shall resume spee	ed control procedures when
leaving the holdi	ng fix.	d stan anti- a fital tal tara
6.1.6 AIC may issue fu	urner speed adjustment instructions	during various flight phases
6.1.7 All speed restric	tions are to be flown as accurately a	as possible. If unable to
conform to these	procedures, pilots should immediat	ely inform ATC and state
the speed to be u	used so that an alternative action ca	n be taken.
When a departing airc	1s raft on a SID is cleared to climb to a	a level higher than the
initially cleared level	or the level(s) specified in the SID,	the aircraft shall
nevertheless follow th	e published vertical profile, unless	such restrictions are
explicitly cancelled by	ATC.	
6.2.1 Departing aircra	ft intending to cruise below the trar	nsition level shall follow an
appropriate SID 6 2 2 When an arriving	track and comply with individual Al	c climb instructions.
the level or the	level(s) specified in the STAR, the a	ircraft shall nevertheless
follow the publi	shed vertical, unless such restriction	ns are explicitly cancelled by
ATC. Published r	minimum levels based on terrain clea	arance shall always be
strictly applied. 6 2 3 To facilitate saf	e traffic integration and provide ver	rtical separation between
converging traff	ic in Bangkok Terminal Control Area	, pilots shall plan their
descent profile i	n accordance with the published STA	AR procedures or their
descent profile a	against distance to touchdown.	
6.2.4 All altitude rest	rictions are to be flown as accurate	ly as possible. It unable to
alternative actio	on can be taken.	
7. RADIO	COMMUNICATION FAILUR	
7.1 General		
7.1.1 Radio communica	tion is considered to be failed, if du	Iring two minutes that the
communication d	hannels.	ns mough an available
7.1.2 The transponder i	s set to be Mode A/C code 7600 as	soon as the pilot has detected
communication fa	ailure.	
7.1.3 The pilot shall us	e all available facilities to re-estab	olish communication with
ATC unit directly	v or by means ot the other aircraft. MHz may be used	It necessary, the emergency
7.1.4 In any case of rad	dio communication failure, the nilot	shall continue listening on
the appropriate r	adio frequency and transmitting the	position reports, actions
and flight condit	ions. The pilot shall comply with one	e of the following procedures

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7.2 Total radio commun 7.2.1 If in VMC, contin 7.2.2 If in IMC or when the flight in acco 7.2.2.1 If a spect prior to the radio Proceed for Rwy with the STAR pro a) For Rw	tication failure for arriving a bue to fly in VMC and land at the number of the pilot of an IFR flight consider ordance with para 7.2.1, the pilot s if ic STAR procedure has been design the occurrence of radio communicato communication failure procedures according to the STAR route to the 21L/21R or DOTLI for Rwy 03L/R and published all speed and altitude ro occurrence: wy 21L/21R: at AROKA and mainta	ircraft earest suitable aerodrome. rs it inadvisable to complete shall: gnated and acknowledged ition failure, comply with s. termination point AROKA nd descend in accordance estrictions of the relevant in altitude 3000'. The pilot
shall appro	make a right holding pattern as pu priate approach procedure.	blished and carry out the
b) For Rv procedur	vy 03L/03R: At DOTLI, carry out tł e.	ne appropriate approach
7.2.2.2 If no spect to the oc the landi then show to its AT communi	cific STAR procedure has been desi courrence of radio communication f ing direction from any available m uld proceed in accordance with the TS route and landing direction and cation failure procedures.	ignated or acknowledged prior ailure, endeavor to ascertain eans in para 7.5. The pilot STAR procedure appropriate comply with the radio
7.2.3 When an arriving on the frequency to be made. If th Pilot should proc procedure approp	aircraft is being radar vectored, in use for a period of two minutes ne radio frequency check indicates eed in the most direct manner poss priate to its ATS route and landing	if no transmissions are heard s, a radio frequency check is a radio communication failure. sible to rejoin the STAR direction.
7.2.4 Pilots should ensu If the aircraft is climb to the mini	re that they remain at or above th below the minimum sector altitude mum sector altitude.	e minimum sector altitude. e, pilots shall immediately
7.3 Total radio communi	ication failure for missed app	oroach aircraft
7.3.1 The pilot shall set or proceed direct holding point at 3	t the aircraft transponder to Mode to (in case of radar vector) the ap i000' (For Rwy 21L/21R) or 4000' (A/C code 7600 and fly to propriate missed approach For Rwy 03L/03R) and hold.
7.3.2 The pilot then sha (For Rwy 03L/03R) commencing an ap accordance with p	Il climb and maintain 4000' (For R) in the holding pattern and comple ppropriate approach procedure and para 7.5 below, thence	wy 21L/21R) or 5000' te one holding then start landing direction in
a) For Rwy 21L/2 transition to IAF	1R: maintain altitude 4000' and pr and carry out an appropriate appro	oceed direct to BKK VOR then bach procedure.
b) For Rwy 03L/03 carry out the app VOR Rwy 03R: ma transition to IAF	3R: maintain altitude 5000' and pr ropriate approach procedure. Excep aintain altitude 5000' and proceed and carry out an appropriate appro	oceed direct to DOTLI, ot ILS or LOC Y Rwy 03L and direct to BKK VOR then pach procedure.
7.4 Partial radio commu 7.4.1 Aircraft unable to failure procedure 7.4.2 Aircraft able to r ground transmissi	unication failure for arriving o receive: pilots shall adopt the to s specified in para 7.2. eceive: following verification that ions by squawk ident, ATC will con	aircraft tal radio communication t aircraft is able to receive ntinue to issue and repeat

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7.5. Identification of money		, , ,	
7.5.1 A pilot endeavours t following sources: A pilot should rely on forecasts, meteorolo prior to the commun landing direction.	ay in use to obtain information on the land ATIS, D-ATIS, ACARS, satellite the best available information s ogical reports or any other relev ication failure and should decide	ling runway from the phone, etc. If unable such as aerodrome w rant information ob e on the most appro	ne le, the weather tained ppriate
7.5.2 To assist the pilot ir lighting for the runw the runway-in-use a assume that the ILS which the approach	n ascertaining the landing direct way in use will be switched on. I re sighted but the ILS signal is r is inoperative and shall proceed lights have been sighted.	ion, the ILS and app If the approach ligh not received, the pi I to land on the runy	oroach its for lot shall way on
7.6 Total radio communica 7.6.1 The pilot shall set th with the last acknow then climb to the pla and altitude restrict comply with the flig 7.6.2 Whenever a pilot ex	It ion tailure for departing a ne aircraft transponder to Mode wledged clearance up to the next anned cruising level in accordance tions of the relevant SID procedu ght planned routing. periences total radio communica- it is deemed upsafe for the flig	A/C code 7600 and reporting point on ce with the publish ure. Thereafter, the ation failure immed	comply the SID, ed all speed pilot shall liately
destination, the pilo 7.6.2.1 The pilot sha 7.6.2.2 The pilot sha the publishe procedure.	ot shall adhere to the procedures all set the aircraft transponder t all comply with the last assigned ad all speed and altitude restrict	below: To Mode A/C code 7 d altitude in accord tions of the relevan	7600. Iance with t SID
proceed dire required bef at 8500' for fuel dumpin pilot must f	ect to BKK VOR and hold. If fuel fore making an approach to land ⁻ 2 minutes, the pilot shall proce g area and start dumping fuel. V ly direct to BKK VOR and hold.	dumping is necessa , after maintaining eed to the nearest s Vhen it is complete	arily altitude uitable d, the
7.6.2.4 The pilot is inbound cour start comme direction in 7.7 Partial radio communi	required to make a left holding rse 120° and one-minute-leg to o encing an appropriate approach p accordance with para 7.5. cation failure for departing	pattern over BKK V complete one holdir procedure and landi aircraft	OR with ng then ng
7.7.1 Aircraft unable to re specified in para 6.6 7.7.2 Aircraft able to rece ground transmission instructions and/or o	eceive: pilots shall adopt the tot 5.2. eive: following verification that s by squawk ident, ATC will con clearances to the pilot.	al radio failure pro aircraft is able to tinue to issue and i	ocedures receive repeat
7.8 Aircraft overflying Ba 7.8.1 The pilot shall set th 7.8.2 If in VMC, the pilot suitable aerodrome.	ngkok Terminal Control Are ne aircraft transponder to Mode shall continue to fly in VMC and	a A/C code 7600. land at the neares	t
the flight in accorda assigned speed and l ten minutes followir compulsory reporting with the filed flight	ance with para 7.8.2, the pilot sl level, or minimum flight altitud ng the aircraft's failure to repor g point and thereafter adjust lev plan.	nall maintain the la e if higher, for a pe t its position over rel and speed in acc	ast eriod of a cordance
7.9 Departing or overflyin 7.9.1 The pilot shall set th	ng aircraft under radar cont ne aircraft transponder to Mode	rol A/C code 7600.	
7.9.2 The pilot shall main flight altitude if hig 7.9.2.1 The time the 7.9.2.2 The time the 7.9.2.3 The aircraft point. Whic accordance	tain the last assigned heading, s gher, for a period of two minute e last assigned level or minimum e transponder is set to 7600; or 's failure to report its position whever is later, and thereafter ac with the filed flight plan.	speed and level, or s following: n flight altitude is over a compulsory r djust level and spee	minimum reached; or reporting ed in

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possible to rejoin the SID procedure appropriate to its ATS route or the flight planned route no later than the next significant point, taking into consideration to the applicable minimum flight altitude.

7.10 Alternative methods for communicating with ATC

Pilots may endeavour to communicate with ATC by telephone network.

8. AIRCAFT TRANSPONDER FAILURE PROCEDURES

8.1 Control of aircraft experiencing transponder failure procedure

8.1.1 When a transponder failure is detected to be unserviceable prior to departure, ATC shall confirm with the pilot of his transponder operations using the following phraseologies.

Phraseologies

"C/S, CONFIRM TRANSPONDER ON", or "C/S, CHECK YOUR TRANSPONDER OPERATED NORMALLY", or "C/S, TRANSPONDER NOT RECEIVED, CHECK FUNCTIONALITY"

When it has been confirmed that aircraft transponder fails, ATC shall advice the pilot to repair it before departure. However, the surface radar blind spot, where the transponder might not be easily detected, should be taken into consideration.

Phraseologies

"C/S, ADVISE TRANSPONDER REPAIRED BEFORE DEPARTURE", or "C/S, ADVISE RETURN TO BAY FOR TRANSPONDER REPAIRING"

8.1.2 When transponder appears to be unserviceable after the aircraft is airborne, ATC must inform the pilot of his transponder failure using the following phraseologies.

Phraseologies

"C/S, CONFIRM TRANSPONDER ON", or

"C/S, CHECK YOUR TRANSPONDER OPERATED NORMALLY", or "C/S, TRANSPONDER NOT RECEIVED, CHECK FUNCTIONALITY" When it has been confirmed that aircraft transponder fails, ATC shall advice the pilot to return to his departure airport as well as relay all necessary information to Aerodrome Control Tower and all concerned units.

Phraseologies

"C/S, ADVISE RETURN TO LAND AT (DEPARTURE AERODROME) FOR TRANSPONDER REPAIRING, REQUEST YOUR INTENTION", "C/S, ADVISE RETURN TO BAY FOR TRANSPONDER REPAIRING"

In case pilot decide to proceed to first intended landing or nearest suitable aerodrome, primary radar separation shall be provided. However, the pilot shall be reminded that delays can be expected and some requests might not be granted e.g. route to be flown, cruising altitude/level.

8.2 Control of aircraft overflying Bangkok FIR or aircraft intending to land at Don Mueang International Airport with its failed transponder procedure

- 8.2.1 ATC must immediately inform the pilot of his transponder failure so that he could check its operations and repair it.
- 8.2.2 ATC shall control, according to the filed flight plan, the aircraft experiencing transponder failure to land safely at Don Mueang International Airport.
- 8.2.3 ATC shall control, according to the filed flight plan, the over-fly aircraft experiencing transponder failure to land safely at the destination aerodrome.
- 8.2.4 Approach Control shall coordinate closely with Don Mueang Tower and/or other concerned units regarding the problem.
- 8.3 The above procedures shall be applied to all aircraft except state aircraft and military aircraft

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8.4 Aircraft intending failed transponder controlled solely b	to land at Don Mueang Internati might be assigned to fly along y Suvarnabhumi PSR which norm	ional Airport with its an RNAV STAR and ally covers up to 80 NM
9. OPERAT	TION OF MODE S TRANSPOND	ERS ON GROUND
9.1 Mode S transponder Aircraft operators inte ensure that mode S tra	r ending to use Don Mueang Internation nsponders are able to operate when t	nal Airport should the aircraft is on the ground.
9.2 For aircraft that an signs in flight), the or control panel. Th (i.e. same format a shall be used.	e capable of reporting aircraft aircraft identification should he ICAO defined format for airc as used in flight plan e.g. AIQ33	identification (i.e. call also be entered via FMS craft identification 321, TLM634, NOK9820)
9.3 Flight crew should installation. It mus operational/activa the assigned mode9.3.1 For a departing f 9.3.2 For an arriving fl	select XPDR or the equivalent a t also be ensured that the trans te (i.e. OUT OF STAND-BY, or OF A code is selected in accordand light, upon received pushback clearar light, continuously until the aircraft	according to specific sponder is FF POSITION) and ce with the following. nce. is fully parked at the stand.
9.4 To prevent possible should be functione 9.4.1 For departure, w received; 9.4.2 For arrival, until	e interference to radar surveill ed; hen aircraft are entering the runway aircraft have vacated the runway.	ance system, TCAS or line up clearance is
9.5 During on ground, p shall operate the t directed by the AT 9.5.1 For departure, w 9.5.2 For arrival, until	vilot of aircraft not equipped w ransponder and select mode A of C until: hen receiving pushback clearance. aircraft have completely parked.	ith mode S transponder code as individually
9.6 Tracking and identi 9.6.1 To provide tracki operating on runway(s) should be equipped wit the runway and the squ runway. However, the reason is highly recomm	fications of airport surface veh ng and identification of any authoriz at Don Mueang International Airpor h mode S squitter box to inform its p itter box shall be activated at all tir mode S squitter box on vehicle is opt nended to install it on every vehicle.	nicles ed movement of vehicle t, authorized vehicle position when it is on me until it vacates the tional, but for safety
	10. START UP PROCEDUR	ES
a. When flight formali all IFR aircraft are t 127.7 MHz, giving pa b. Pilots are to call Do and should give park	ties have been completed and the air to call Don Mueang Delivery for ATC arking stand number or location and p n Mueang Ground on 121.9 MHz for p ing stand number or location and ATI	craft is ready to start-up, clearance on frequency proposed flight level. ush back and start-up IS information.
 Unless other ATC in 5 minutes from th will be cancelled. 	restriction is imposed, the aircraft m le time ATC clearance is received oth	nust be pushed back within nerwise the ATC clearance
Additionally, in o domestic departur after clearance re	rder to provide a more flexible groun es shall no longer be required to pusl ceived.	nd traffic movement, all h back within 5 minutes
2. If the ATC clearen longitudinal separat Ground in readiness	nce includes a departure time restrict ion, pilots shall maintain listening w for push back and are to call Don Mu	tion in order to establish vatch on Don Mueang Jeang Ground in the

appropriate time with the departure time restriction. Pilots who fail to comply with these requirements or amended departure time restriction will result in cancellation of ATC clearance.

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11. WARNING FOR TAXIING AIRCRAFT

- a. Pilots should exercise extreme caution when maneuvering on the apron due to the proximity of other aircraft, ground staff and equipments. In case the point that aircraft assigned to park at terminal contact gates, engine power should be restricted to the absolute minimum required to reduce the adverse effect of jet blast when making the turn to parking bay. Pilots who cannot follow this procedure must stop before making the turn, then request ATC for towing-in. If accident occurred during aircraft taxiing or turning. Pilots and airline operators must take responsibility to all of the damages.
- b. In order to prevent jet blast damage the aircraft parking on area close to taxiway B (North), all taxiing aircraft have to reduce to minimum power while taxiing along taxiway B (North).

c. Aircraft landing Rwy 21L, when vacating the Rwy to the right on Twy S, must hold short of Rwy 21R at the holding position and remain on Tower frequency 119.1 MHz for permission to cross the Rwy. Changing of frequency shall not be done unless advised. The aircraft shall continuously guard the VHF emergency frequency 121.5 MHz at all times for reasons of safety.

11.1 Allocation of aircraft parking bays

All aircraft parking bays are allocated by Ground/Apron controller with regard to aircraft type and the prevailing or anticipated traffic situation.

11.2 Aircraft marshalling and towing services

The marshalling of scheduled and non-scheduled into the bays either manually and the pushing out of aircraft for departure shall be under the responsibility of the aircraft operator or its appointed ground handling agency.

11.3 Taxiing procedures

11.3.1 Arriving Aircraft

Aircraft entering the aprons are to follow closely to the taxiway and apron centerlines so as to avoid reducing safety distances between them and parking aircraft.

11.3.2 Departing Aircraft

When start-up clearance is issued by ATC, then push back onto apron centerline and/or abeam centerline of taxiway B.

12. PROVISION OF AERODROME AIR TRAFFIC SERVICES

12.1 Aerodrome air traffic services are generally sectorized as follows:

12.1.1 AD Control Serviced are provide at Air Traffic Control Tower South (TWR-S). 12.1.2 Air Traffic Control Tower North (TWR-N) will be used as contingency tower.

13. FUEL DUMPING PROCEDURE AND IN-FLIGHT FUEL MANAGEMENT PROCEDURES

13.1 Introduction

An aircraft in emergency or other urgent situations may need to dump fuel so as to reduce to maximum landing mass in order to affect a safe landing.

13.2 Fuel Dumping Areas

- 13.2.1 North fuel dumping area: between R-335 and R-355, distance of 30 to 50 NM from BKK VOR, altitude at or above 8500'.
- 13.2.2 East fuel dumping area: between R-090 and R-110, distance of 30 to 50 NM from BKK VOR, altitude at or above 8500'.
- 13.2.3 South fuel dumping area: between R-190 and R-210, distance of 30 to 50 NM from BKK VOR, altitude at or above 8500'.

13.3 In-flight Fuel Management Procedures

13.3.1 Definition

Minimum fuel: The term used to describe a situation in which an aircraft's fuel supply has reached a state where the flight is committed to land at a specific aerodrome and no additional delay can be accepted. Mayday fuel: Describes the nature of the distress conditions when the calculated usable fuel predicted to be available upon landing at the nearest aerodrome where a safe landing can be made is less than the planned final reserve fuel.

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DON MUEANG INTL	10 MAY 24 (10-1P8)	AIRPORT BRIEFING
	GENERAL (CONTD 7	7)
13.3.2 Actions taken b	y pilot	
13.3.2.1 The pilot-in	n-command shall continually ensu	re that the amount of
usable fue	I remaining on board is not less 1	than the fuel required
to proceed	to an aerodrome where a safe l	anding can be made
with the p	lanned final reserve fuel remaining	ng upon landing.
13.3.2.2 The pilot-in	n-command shall request delay in	itormation from AIC
when unan	ticipated circumstances may resu	alt in landing at the
	n aerodrome with less than the fi	Inal reserve fuel plus
or the fue	required to operate to an isolat	ed aerodrome
13 3 2 3 The pilot-i	n-command shall advise ATC of a	minimum fuel state by
declaring	"MINIMUM FUEL" when, having c	ommitted to land at a
specific a	erodrome, the pilot calculates the	at any changes to the
existing cl	learance to that aerodrome may r	result in landing with
less than p	planned final reserve fuel.	C C
NOTE 1: The declaration	n of "MINIMUM FUEL" informs ATC	C that all planned aerodrome
options have b	een reduced to a specific aerodrom	e of intended landing and
any changes to	the existing clearance may result	in landing with less than
planned tinal r	eserve tuel. This is not an emergen	ncy situation but an indication
that an emerge	ency situation is possible should an	y additional delays occur.
NOTE 2: It should be no	ted that Pilots should not expect a	ny torm of priority handling
as a result of a	a "MINIMUM FUEL" declaration. Al	IC will, however, advise the
tlight crew of	any additional expected delays as	well as coordinate when
transferring co	ontrol of the aircraft to ensure that	other AIC units are
aware of the t	light s fuel state.	
13.3.2.4 The pilot-ir	1-command shall declare a situation	on of distress related
to the amo	unt of fuel available on board the	e aircraft by broadcasting
fuel predic	MAYDAY, MAYDAY, FUEL When	at the pearest serodrome
where a sa	ted to be available upon landing	at the nearest aerourome
reserve fue	el	
NOTE 1: The planned fi	nal reserve fuel refers to the value	e calculated in Annex 6
- Operationof	Aircraft, Chapter 4, item 4.3.6.3	e) 1) or 2) and is the minimum
amount of fue	I required upon landing at any aero	drome.
NOTE 2: The words "M	AYDAY FUEL" describe the nature c	of the distress conditions as
required in An	nnex 10, Volume II, Chapter 5.3.2.1	, b) 3).
NOTE 3: Guidance on n	rocedures for in-flight fuel manage	ment is contained
in the Fuel Pla	anning Manual (Doc 9976).	
13.3.3 Actions taken by A	TC	
13.3.3.1 When a pilo	ot reports a state of "MINIMUM F	UEL", ATC shall respond
to the pilo	t who indicates or suggests that	he is becoming short of
fuel or who	o has declared "MINIMIM FUEL" a	as follows:
13.3.3.1.1 Infor	m the pilot of either:	
a) The esti	mated delay, if pilots are en-rout	te to, joining or
are esta	blished in holding point such as i	IAWPS; or
b) The estimate the back of th	mated track mileage, it pilots are	e being vectored to an
	rdinate when transferring control	of the aircraft to
ens	ure other ATC units to be aware	of the flight's fuel state
13 3 3 1 3 9tor	and phraseology	
Pilot trans	smission: (C/S) MINIMUM FUEL	
	transmission: (0/8) DOOED INC	
	Transmission: (U/S), RUGER [NU) or EXPECT (delay information)	
13.3.3.2 When a pilot repo	orts a state of "MAYDAY, MAYDA	AY, MAYDAY FUEL".
Inis is an emerge	ency and the aircraft shall be give	ven priority over other
trainc in the lan	ong sequence. The allocatt WIII of any delay or a go-around there	e may be insufficient fuel
remaining for a s	safe landing	e may be mournerent luer
13.3.3.2.1 Star	ndard phraseology	
Pilot trans	smission: (C/S) MAYDAY. MAYDA	Y, MAYDAY FUEL
Controller	transmission: (C/S) ROGER MAY	(DAY

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AIRPORT COLLABORATIVE DECISION MAKING (A-CDM) AT DON MUEANG INTL AIRPORT

1. DEFINITION OF TERMS COMMONLY USED IN A-CDM

1.1 Target Off-Block Time (TOBT) - The time that an Aircraft Operator (AO) or Ground Handler (GH) estimates that an aircraft will be ready, all doors closed, boarding bridge removed, push back vehicle available and ready to start-up and push back immediately upon reception of clearance from the Aerodrome Control Tower (TWR).

1.2 Target Start-Up Approval Time (TSAT) - The time provided by ATC taking into account TOBT, CTOT and/or the traffic situation that an aircraft can expect start-up/push back approval.

1.3 Calculated Take-Off Time (CTOT) - A time calculated and issued by the appropriate Central Management unit, as a result of tactical slot allocation, at which a flight is expected to become airborne.

2. DON MUEANG A-CDM PROCEDURES

2.1 Don Mueang A-CDM Procedure Overview

The chart below describes the simple overview of the Pre-Departure process at Don Mueang International Airport from the time that airlines input the TOBT to the time that aircraft is airborne. It includes the responsibilities and procedures in brief, as described below.



2.2 Target Off-Block Time (TOBT) Procedures

2.2.1 General

The TOBT is the essential contribution of airlines to the A-CDM process which establishes the Pre-Departure Sequence taking into account operators preferences and operational constraints. Airlines or person responsible for the TOBT are required to access and manually input the TOBT into the A-CDM Portal in order that the start-up approval time (TSAT) can be expected.

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AIRPORT COLLABORATIVE DECISION MAKING (A-CDM) AT DON MUEANG INTL AIRPORT(CONTD)

2.2.2 Person Responsible for TOBT

Airline operator (AO) is responsible for the input of and adherence to the TOBT. However, AO may prefer to delegate this function to ground handler (GH). It is the responsibility of the AO/GH to communicate and ensure that the pilot of a flight has the correct TOBT and TSAT prior to requesting ATC clearance.

AO need to ensure that a timely, accurate and stable TOBT is provided. If it becomes obvious that the TOBT cannot be respected, it shall be updated by the person responsible for the TOBT as early as possible.

2.2.3 TOBT Input and Revision

The following has to be taken into account for the input and/or revision of the TOBT:

- a) The first TOBT can be input at 120 minutes (2 hours) prior to EOBT.
- b) A TOBT input must be at least the present time.

c) The TOBT revision can be made as often as desired until the TSAT has been issued (40 minutes prior to TOBT).

d) After the TSAT has been issued, the TOBT can only be revised not more than 5 times to ensure a stable operation.

e) New TOBT must differ by at least 5 minutes (+/-5 minutes) from the latest input TOBT to protect a stable Pre-Departure Sequence.

l 2.2.4 Flights with Calculated Take-Off Time (CTOT)

Flights with CTOT will usually take priority when calculating TSATs in order to minimize potential CTOT delay.

- 2.2.5 TOBT Deletion
 - a) TOBT can be deleted by users with permission to input/revise the TOBT.
 - b) If the TOBT is deleted, the TSAT is automatically deleted.
 - c) The TOBT has to be deleted in the following cases:
 - TOBT is unknown (e.g. technical problems with the aircraft), or
 - The permitted number of TOBT revision (5 times) after the generation of the TSAT has been exceeded.
 - d) If a new TOBT is known, the process shall continue and the person responsible for the the TOBT has to enter a new TOBT.

2.2.6 TOBT Reporting Channels

The TOBT is reported or updated by the following ways:

- A-CDM Portal Web Based Application (https://acdm.airportthai.co.th)
- A-CDM Portal Mobile Application
- 2.3 Target Start-Up Approval Time (TSAT) Procedures
- 2.3.1 General

The TSAT is calculated based on the following key parameters:

- Target Off-Block Time (TOBT)
- Calculated Take-Off Time (CTOT)
- Operational Capacity
- Variable Taxi Time (VTT)
- Parking Stand
- Departure Runway

2.3.2 TSAT Distribution

2.3.2.1 The TSAT is displayed/distributed 40 minutes prior to the TOBT.

2.3.2.2 After TSAT has been distributed, the TOBT can only be revised not more than 5 times to ensure a stable sequence and CTOT allocation.

2.3.2.3 Subsequent TOBT revision triggers a recalculation of TSAT. It should therefore be noted that an incorrect TOBT leads to disadvantages for further sequencing and/or CTOT allocation of regulated flights.

2.3.2.4 The TSAT may not be final and can be revised due to air traffic management.

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AIRPORT COLLABORATIVE DECISION MAKING (A-CDM) AT DON MUEANG INTL AIRPORT (CONTD 1)

2.3 Target	t Start-Up	Approval	Time	(TSAT)	Procedures	(contd)
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2.3.3. TSAT Reporting Channels

2.3.3.1 The TSAT will be issued to airlines or person responsible for TOBT via the same reporting channels as the TOBT:

- A-CDM Portal Web Based Application (https://acdm.airportthai.co.th)
- SMS via digital trunked radio system
- A-CDM Portal Mobile Application

2.3.3.2 The AO/GH is responsible for updating and ensuring that the pilot of a flight has the correct TOBT and TSAT prior to requesting ATC clearance.

2.4 Start-Up and Push Back Procedures

2.4.1 General

Start-up and push back approval are issued taking into account the TOBT and TSAT. The sequence of the start-up and push back request is no longer a factor. The following rules apply:

2.4.2 Start-Up and Push Back Procedures

2.4.2.1 Pilot shall ensure that aircraft is ready for start-up and

a) Push back, or

a) In case of self-manoeuvring authorized by Airport Authority, the aircraft shall be ready to power back then taxi or taxi out from parking stand.

Remark:

-For IFR flight, pilot shall contact CDC (127.7MHz) for ATC Clearance within 5 minutes prior to TOBT (Period: TOBT - 5 minutes) and monitor defined ground frequency without delay.

-ATC may verify or advise any changes of TSAT due to air traffic clearance restriction or flow measures.

| 2.4.2.2 Pilot shall monitor defined ground control frequency in accordance with aircraft parking stand. If there is any change of TSAT, Ground Control will update the pilot as soon as possible.

2.4.2.3 Pilot shall contact Ground Control for start-up and push back within window (TSAT +/- 5 minutes). In case of self-manoeuvring operation after start-up completed pilot shall also request power back then taxi or taxi out in a period of TSAT window. When the pilot request for pushing back, these three scenarios may occur:

1. Before TSAT window: Flight will be requested to call again when it is within the TSAT window.

2. Within TSAT window: Flight will be planned for outbound sequence and may expect start-up approval directly or within a few minutes depending on actual operational situation.

3. After TSAT window: The TSAT of the flight has expired. Flight will be denied start-up approval. Pilot has to contact its AO/GH to update the TOBT and shall contact ATC again when TOBT update has resulted in an updated TSAT.

| 2.4.2.4 Ground Control will issue start-up and push back clearance taking TSAT into account.

Remark:

The aircraft may be allowed to commence push back before the assigned time (TSAT) due to traffic condition such as bay replacement, and etc. However, the flight should not expect an earlier departure time as the planned pre-departure sequence will be maintained.

2.4.2.5 If a flight is unable to push back due to the aircraft being unready, TSAT will be will be cancelled. Pilot must notify the AO/GH to update the TOBT for a new TSAT.

a) Non-compliance to initial TSAT may result in an aircraft losing its existing position in the pre-departure sequence. Delays can be expected as a result of re-sequencing based on new TOBT input.

b) Flight will not be allowed to depart until a valid TOBT is entered and revised TSAT is given and complied with.

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AIRPORT COLLABORATIVE DECISION MAKING (A-CDM) AT DON MUEANG INTL AIRPORT (CONTD 2)

3. A-CDM IN ADVERSE CONDITION

3.1 Adverse Conditions consist of collaborative management of the capacity of an airport during periods of predicted or unpredicted reduction of airport capacity. The aim is to achieve a common situation awareness for the A-CDM partners, including better information for the passengers, in anticipation of a disruption and expeditious recovery after the disruption.

- | 3.2 In case of adverse conditions or any circumstances where predicted or unpredicted reduction of airport capacity may be expected, the following procedures shall be applied:
- | 3.2.1 The pilot shall contact Ground Control for start-up and push back at TSAT +/- 5 minutes.
- 1 3.2.2 If there is any change of TSAT, Ground control will update the pilot accordingly.

4. NON A-CDM OPERATION

4.1 In case of unavailability or maintenance of A-CDM system, TSAT will not be provided and Non A-CDM Operation shall be performed.

1 4.2 During period of Non A-CDM Operation, pilot shall request for ATC clearance when the aircraft is ready for pushback. ATC will then issue start-up/pushback clearance on a first-come-first-serve basis.







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graphic depiction, chart reindexed. CHANGES: Procedure notes, bearings





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,		23 JUN 23	(10-9A)		DON	MUEAN	g int
GENERAL							
Low-level wind	shear alert syste	em.					
The use of Rwy (traffic. But they No straight in a	03R/21L at Don / y may be made a pproaches are pe	Mueang Internati vailable to civil ermitted without	onal Airport is n trafiic. prior approval fi	ormally restr om Don Muea	icted to milita ang Tower.	ary	
PILOT PROCEDUR	RE TO ENHANCE	RUNWAY CAPAC	ITY				
Departing Aircra 1. Commensur pilots shou the runway 2. Cockpit che while on th commence 3. Pilots unab holding pos 4. Departures	aft: rate with safety ld ensure that the ras soon as the p acks should be co the runway shall be the take-off roll le to comply with sition. shall normally be	and standard op ney are able to ta preceding aircraf ompleted before be kept to a mini immediately af th these procedur pe cleared in the	erating procedure axi into the corre t has commenced line up; any furth mum. Pilots shal ter a take-off cle es shall inform A order in which th	e, on receipt ect hold and l l its take-off her checks red l ensure that earance is iss ATC prior to p hey are ready	of line up clear ine up position roll. quiring complet they are able ued. passing the run for take-off,	rance, on tion to way	
except that	t deviations may	be made from t	his order of prior	ity to facilit	ate		
Arriving Aircraf Pilots are r spacing on the occurre	t: •eminded that ra Final Approach t nce of go-around	pid exit from the hat will achieve ds.	e landing runway maximum runwa	enables ATC y utilization	to apply minin as well as min	num imize	
		ADDITIONAL	RUNWAY INFORM	ATION			
						S	
RWY				Threshold	Glide Slope	TAKE-OFF	WIDT
03R HIRL (60	0m) HIALS PA	PI (angle 3.0°)					148
211 HIRL (60	0m) HIALS PA	PI (angle 3.0°)		0	9285' 2830m		45m
❶LDA: 10,335' ;	3150m						
03L HIRL (60	0m) CL (30m) HI	ALS PAPI (a	angle 3.0°) RV	/R	11,091' 3381m		197
21R HIRL (60	0m) CL (30m) HI	ALS-II TDZ PAPI	(angle 3.0°) R	/R	11,046' 3367m		60m
		F	IOT SPOTS	51			
	For info	mation only not	t to be construed	as ATC instr	uctions		
HS1 Aircraft t taxiway [and watch	taxiing to runwa D and to hold sho n for the holding	y 21R on taxilane ort of runway 21F line surface pai	e B or taxiway C R. Use caution wh nted and hold sho	which are ins en making th rt of runway	structed to turn e right turn on 21R. Do not cr	n right onto to taxiway oss the	D
	ne surtace paint	ed for runway 21	R without AIC a	uthorization	(including faxio	way B north	n).
to hold sh the holdir surface pa	nort of runway 2 nort of runway 2 ng line surface p ainted for runwa	y 21R on faxiway 1R. Use caution v ainted and hold s y 21R without A	vhen making the whort of runway 2 TC authorization.	right turn ont 1R. Do not cr	to taxiway E ar oss the holding	nd watch fo gline	ia or
HS3 Due to set taxiing fr while on t taxiway (veral intersection om taxilane B an taxiway O. Use of C and do not cross	ons around this a nd taxiway O to caution when tax as the hold marki	rea which connec join taxiway C ca iing on taxiway (ng for runway 21	t to rapid ex an do mistake O and approa R-03L withou	it taxiways, ai e entering runw ching the inter t ATC authoriz	rcraft vay 21R-03 section of ation.	L
HS4 Due to sev taxiing fr while on t taxiway (veral intersection om taxilane B an taxiway R. Use of C and do not cross	ons around this a nd taxiway R to j aution when tax as the hold marki	rea which connec oin taxiway C ca iing on taxiway F ng for runwav 21	t to rapid ex in do mistake and approac R-03L withou	it taxiways, ai entering runw hing the inters t ATC authoriz	rcraft ay 21R-03L ection of ation.	
	ated runway 211	by right join tax	kiway S. Use caut	ion when tax f runwav 21R	iing on taxiwa	iy S and the holding	
HS5 After vac watch for line surfa	the holding line ce painted for ru	unway 21R witho	ut ATC authoriza	tion.			
HS5 After vac watch for line surfa Aircraft t to hold sh for the ho surface pa	the holding line ce painted for ru taxiing to runwa tort of runway 0 lding line surfac ainted for runwa	y 03R on taxilane 3R. Use caution v ce painted and ho y 03R without A	and noid shorr o ut ATC authoriza e T which are ins when making the old short of runwa TC authorization.	tion. tructed to tur right turn ont ay 03R. Do no	n right onto ta to taxiway S ar t cross the hol	axiway S ar nd watch ding line	ıd
HS5 After vac watch for line surfa HS6 Aircraft t to hold sh for the ho surface pa	the holding line ce painted for ru taxiing to runwa nort of runway 0 olding line surfac ainted for runwa	ynway 21R witho y 03R on taxiland 3R. Use caution v ce painted and ho y 03R without A	And noid shorr o ut ATC authoriza a T which are ins when making the old short of runwa TC authorization.	tion. tructed to tur right turn ont ay 03R. Do no	n right onto ta to taxiway S ar t cross the hol	axiway S ar nd watch ding line	ıd
HS5 After vac watch for line surfa HS6 Aircraft t to hold sh for the ho surface pa	the holding line ce painted for ru axiing to runwa ort of runway 0 lding line surfac ainted for runwa	y 03R on taxilane 3R. Use caution v ce painted and ho y 03R without A	TAKE-OFF	tion. tructed to tur right turn on ay 03R. Do no	n right onto ta to taxiway S ar to cross the hol	axiway Sar ad watch ding line	ıd
HS5 After vac watch for line surfa HS6 Aircraft t to hold sh for the hc surface pa Std RL & CL & relevant RVR	the holding line ce painted for ru- taxiing to runwa ort of runway 0 olding line surfac ainted for runwa	RL & RCLM	TAKE-OFF RL or CL NIGHT	tion. tructed to tur right turn ont ay 03R. Do no RL or RCLM DAY	n right onto ta to taxiway S ar to cross the hol	axiway S ar ad watch ding line equate Vis Re	ed ef IGHT

CHANGES: None.

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CHANGES: Taxilane A depiction.

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BANGKOK, THAILAND DON MUEANG INTL

PARKING STAND COORDINATES				
STAND No.	COORDINATES	FOR AIRCRAFT UP TO		
	NORTH APRON	-		
1.2	N13 55 6 F100 36 4	B747-400		
7 thru 0	N13 55 6 E100 36 A	14/17 = 200		
10A 10B 10C	N13 55 5 E100 36 A	$\frac{1}{10000000000000000000000000000000000$		
10A, 10B, 10C 01	N13 55.5 E100 30.4 N13 55 6 E100 36 6	2747		
71 02	N13 55 6 E100 36 5	B767		
12	NTO 55.0 ETOC 50.5	6,0,		
93	N13 55.5 E100 36.5	B767		
94 thru 96	N13 55.5 E100 36.5	B767		
97,98	N13 55.4 E100 36.5	A300		
99	N13 55.4 E100 36.4	A300		
	NORTH CORRIDOR			
12, 14, 15	N13 55.4 E100 36.3	B747-400/B777-300/A340-600		
100A	N13 55.4 E100 36.4	A300		
100B, 100C	N13 55.3 E100 36.4	A300		
	PIER 2			
21	N13 55.3 E100 36.3	B777-200		
22	N13 55.2 E100 36.2	B747-400		
23	N13 55.3 E100 36.3	B777-200		
24	N13 55.2 E100 36.3	B747-400		
25	N13 55.2 E100 36.3	B777-200		
24	N17 55 2 5100 36 3	P747 400		
20	NIG 55.2 ETUU 50.5	D/4/-400		
71	PIEK 3	5777 000		
31 70	NI3 55.1 EIUU 30.2	B777-200		
52 77	N13 55.1 E100 36.2	B747-400		
33 74	N13 55.1 E100 36.2	B777-200		
34 75	NI3 55.1 EIUU 30.2	B/4/-400 B777-200		
35	N13 55.1 E100 50.5	B///-200		
36	N13 55.1 E100 36.2	B747-400		
	PIER 4			
41	N13 55.0 E100 36.1	B777-200		
42	N13 55.0 E100 36.1	B747-400/B777-300/A340-600		
43	N13 55.0 E100 36.1	B777-200		
44	N13 54.9 E100 36.1	B747-400/B777-300/A340-600		
45	N13 55.0 E100 36.2	B777-200		
40	N13 54.9 E100 36.2	B747-400/B777-300/A340-600		
	PIEK 5	/ /		
51	N13 54.9 E100 36.0	A320/A330/B777-200/B747		
52	N13 54.8 E100 36.0	A320/A330/B767-300/B777-200/B747		
53, 55	N13 54.8 E100 36.1	A320/A330/B767-300/B777-200/B747		
54 54	NI3 54.8 EIUU 36.1	A320/A330/B767/B777-200 A300/A330/P747/P777-200/P747		
50	N13 34.0 E100 30.1	A32U/A33U/D/0//D///-2UU/D/4/		
	PIER 6			
61	N13 54.7 E100 36.0	A300		
62	N13 54.7 E100 35.9	A300		
63 thru 65	N13 54.7 E100 36.0	A300		
66, 67	N13 54.7 E100 36.0	B737-400		
68	N13 54.7 E100 36.0	B747-400/B777-300		
	Isolated Parking			
333	N13 55.7 E100 36.7			

CHANGES: None.

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CHANGES: Hot spots added.

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CHANGES: Approach frequency.

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CHANGES: Approach frequency.

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CHANGES: Approach frequency.

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CHANGES: Approach frequency, altitudes.

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CHANGES: Approach frequency, altitudes.

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CHANGES: Database identifier, speed restriction.

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CHANGES: None.

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CHANGES: Approach frequency.

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JEPPESEN JeppView for Windows

General Information

Location: HANGZHOU CHN ICAO/IATA: ZSHC / HGH Lat/Long: N30° 13.7', E120° 26.0' Elevation: 22 ft

Airport Use: Public Daylight Savings: Not Observed UTC Conversion: -8:00 = UTC Magnetic Variation: 6.0° W

Fuel Types: Jet Repair Types: Minor Airframe, Minor Engine Customs: Yes Airport Type: IFR Landing Fee: Yes Control Tower: Yes Jet Start Unit: No LLWS Alert: No Beacon: No

Sunrise: 2136 Z Sunset: 1023 Z

Runway Information

Runway: 06 Length x Width: 11155 ft x 197 ft Surface Type: concrete TDZ-Elev: 22 ft Lighting: Edge, ALS, Centerline, TDZ

Runway: 07 Length x Width: 11811 ft x 148 ft Surface Type: concrete TDZ-Elev: 22 ft Lighting: Edge, ALS, Centerline

Runway: 24 Length x Width: 11155 ft x 197 ft Surface Type: concrete TDZ-Elev: 22 ft Lighting: Edge, ALS, Centerline

Runway: 25

Airport Information For ZSHC Printed on 12 Apr 2025 Page 2 (c) JEPPESEN SANDERSON, INC., 2025, ALL RIGHTS RESERVED



Length x Width: 11811 ft x 148 ft Surface Type: concrete TDZ-Elev: 22 ft Lighting: Edge, ALS, Centerline

Communication Information

ATIS: 131.450 ATIS: 127.250 Hangzhou Tower: 118.300 Hangzhou Tower: 118.750 Secondary Hangzhou Tower: 123.650 Hangzhou Ground: 121.650 Hangzhou Ramp/Taxi: 121.550 Secondary Hangzhou Ramp/Taxi: 121.850 Hangzhou Clearance Delivery: 121.950 Hangzhou Approach: 120.400 Hangzhou Approach: 120.050 Hangzhou Approach: 119.425 Hangzhou Approach: 119.150 Secondary Hangzhou Approach: 127.700 Hangzhou Approach: 126.050 Hangzhou Approach: 125.550 Hangzhou Approach: 125.275 Secondary Hangzhou Approach: 124.650 Secondary

- ZSHC/HGH
- 3 MAY 24 (10-1P) Eff 15 May 1600Z AIRPORT BRIEFING
- XIAOSHAN

1. GENERAL

1.1. ATIS

D-ATIS 127.25

1.2. WAKE TURBULENCE RE-CATEGORIZATION (RECAT-CN)

For Wake Turbulence Re-Categorization (RECAT-CN) Separation Standards see ATC pages.

1.3. NOISE ABATEMENT PROCEDURES

1.3.1. RUN-UP TESTS

Engine run-ups are subject to the clearance of HANGZHOU Ramp, and may only be carried out at designated location.

Engine idle test can be carried on stands 102 thru 105, 106, 108A, 203, 204, 381thru 386, 500, apron 6, apron 7 and apron 9.

Fast engine run-ups can be carried out on stand 500, 363, TWY B (East of intersection of TWY B4 and B), TWY Z17 (between stands 913 and 914) and TWY Z19 (West of intersection of TWY D0 and Z19).

1.4. LOW VISIBILITY PROCEDURES (LVP)

1.4.1. GENERAL

L

ACFT should be authorized to operate LVP.

The following information should be obtained by ACFT:

- Meteorological forecast;
- LVP is implementing.

For LVP taxi routes refer to 10-9 charts.

1.4.2. **PREPARATION**

When RVR is 800m and forecast to descend or ceiling is 90m and forecast to descend.

When meteorological forecast RVR rise to 150m or above.

Preparation for LVP shall start-up under deterioration of weather conditions.

1.4.3. IMPLEMENTATION

Under the following circumstances, TWR declares start-up of LVP via D-ATIS, ATIS and VHF:

- RVR is greater or equal 150m and less than 600m, and ceiling is greater or equal 30m and less than 60m.

1.4.4. TERMINATION

Under the following circumstances, TWR declares termination of LVP via D-ATIS, ATIS and VHF:

- RVR rises to 600m, ceiling rises to 90m and forecast to clear-up or keep status for 20 minutes;
- RVR is less than 150m, or ceiling is less than 30m and weather condition is not expected to improve in the next hour.

1.5. RWY OPERATIONS

When changing RWY-in-use, if downwind speed is more than 3m/s (6 KT) and not exceeding 5m/s (10 KT), ATC may instruct downwind take-off or landing for a short time. Pilot shall inform ATC if unable.

Printed from JeppView fo	or Windows	5.3.0.0 on 12 Apr 2025; Terminal chart data cycle 12-2024 (Expired); Notice: After 20 Jun 2024, 0000Z, this chart may no longer be vali					
<u>×</u>	IAOSH	AN 3 MAY 24 (10-17-1) Eff 15 May 16002 AIRPORT BRIEFING					
_		1. GENERAL					
1	.6.	TAXI PROCEDURES For Tower Control area and Ramp Control area see 10-9 pages.					
		Repeat the taxiing instructions issued by GND Control, especially those contai- ning boundary limitation. Make it clear when there is a doubt. 180° turnaround on TWY is forbidden for all ACFT.					
I		180° turnaround on RWY is forbidden for all ACFT without ATC permission. TWYs C7, C8, D (East of D4), D4 (South of D), D5, D6, J6 (between E4 and D7) and					
I		K wingspan restricted to less than 262 /80m. TWY's B3, B6, B7, B11, D (West of D4), D3, E4, E5, E6, J, J0, J2 thru J5, J6 (East of D7), L, Z1, Z10, Z11 (between B and stand 214), Z13 (between B and Z1) and Z14, wingspan restricted to less than 213'/65m.					
		TWY Z13 (between Z1 and stand 217) wingspan restricted to less than 157'/48m. TWYs B (between K and B11), B10, B20, D0, D7 (between stands 339 and 343), E7, E8, E9, H7, H9, Z7, Z8, Z11 (between stands 206 and 210), Z13 (between stands 217 and 218), Z17, Z19 and Z20 wingspan restricted to less than 118'/36m.					
		Contact HANGZHOU Operation Control on 130.65 to get towing service.					
_	_	Contact HANGZHOU Ramp on 121.725 for Follow-me service.					
1	.7.	PARKING INFORMATION Stands 102 thru 106, 108A, 203, 204, 211 thru 218, 301 thru 343, 401 thru 432, 500, 512 thru 517, 520 thru 534, 601 thru 613, 630 thru 636, 640, 719 thru 721, 901 thru 904 and 929 thru 946 are push-back.					
		Stands 981 and 982 are push-in and push-back, nose to North. Red/blue push-back procedures established for stands 102 thru 105, 108A, 215, 304 thru 315, 317, 318, 329, 330, 332 thru 337, 339 thru 342, 403thru405, 407, 409 thru 411, 415 thru 418, 419B, 420, 422, 429, 515, 516, 520thru 526, 528 thru 534, 602 thru 613, 630 thru 633, 640, 720, 721, 901 thru 904, 930 thru 937 and					
		 940 thru 946. Red/blue push-back procedure used to command ground worker as follows: After receiving push-back clearance, pilot shall repeat and tell ground worker. Ground worker will then repeat and recognize. Before push-back, ground worker shall ensure push-back direction again. 					
I		Stands 211 thru 218, 301 thru 343 and 401 thru 418, 419B and 420 thru 432 equipped with visual docking guidance system.					
		The safety lines of stands 313, 322 and 325 are overlapping the safety lines of the adjacent stands. The overlapping lines are shown in a red stripe area. Aircrew shall ensure that no vehicles and people are in this area during ACFT maneuvering.					
		ACFT parking at boarding bridge stands shall turn off APU and use bridge power supply equipment (400 Hz) and special air conditioner. ACFT can use APU in the following situation:					
		 Bridge equipment is unserviceable. ACFT needs APU to start up engine. During maintenance of APU. 					
		In case of exceptional circumstance influencing the regularity and safety of oper- ation, such as extreme weather, special plane support, and insufficient flight transition time, ACFT can also use APU.					
1	.8.	OTHER INFORMATION					
		RNAV flight procedures are primary and conventional procedures are secondary procedures. If ACFT cannot fulfil requirements of RNAV procedures, pilot shall inform ATC at first contact. Birds in vicinity of APT.					

RWYs 07 and 24 Right-hand circuit.

- ZSHC/HGH SPRESEN XIAOSHAN 15 MAR 24 (10-1P2)
 - (10-1P2) Eff 20 Mar 1600Z AIRPORT BRIEFING

2. ARRIVAL

2.1. CAT II OPERATIONS

RWY 06 approved for CAT II operations, special aircrew and ACFT certification required.

2.2. RWY OPERATIONS

ACFT shall fully vacate the RWY within 50 sec after touchdown (except for wet or contaminated RWY). If unable, inform ATC before LOC is established.

ACFT shall report to TWR Control "RWY vacated" and TWY used for vacating RWY.

ACFT shall vacate RWY 07 via TWY A5 and RWY 25 via TWY A4. ACFT shall inform TWR Control at initial contact if need to vacate RWY via other TWY.

3. DEPARTURE

3.1. DE-ICING

I

De-icing available at local stands or at stands 381 thru 386 with priority for stands 385 and 386, 618 thru 626, TWY C8 between TWY D and Z14 for severe icing conditions.

De-icing should be applied in advance.

Snow cleaning and de-icing service not available for A380.

3.2. START-UP, PUSH-BACK AND TAXI PROCEDURES

ACFT shall contact HANGZHOU Ramp for push-back and start-up clearance and conduct within 5 minutes. Otherwise, request new clearance.

Obtain delivery clearance through DCL (available 24h) and ATC clearance. No readback required when delivery clearance received through DCL.

Push-back of ACFT on its own power or by towing strictly forbidden without clearance from Ramp Control.

ACFT are forbidden to enter RWY via TWYs A3 thru A6 and C3 thru C6.

When taxiing to RWY holding position, nose of ACFT shall get close to RWY holding position marking without exceeding it when ACFT is waiting at the holding position. Pilot shall report to Tower when nose of ACFT exceeding holding position without instruction.

Ramp Control transfers departure ACFT to Tower Control at intersections of TWYs. Aircrew shall taxi following ATC instructions.

RWY 06: D3 and D5 are transfer points. D3 is for stands 719 thru 721 and 901 thru 928, D5 for others.

RWY 07: B1 and B3 are transfer points. B1 is for stands 102 thru 106 and 108A, B3 is for others.

RWY 24: JC and C7 are transfer points. C7 is for stands 601 thru 613,

616 thru 626, 630 thru 636 and 640, JC is for others.

RWY 25: B10 and JA are transfer points. B10 is for stands 500 thru 506, 512 thru 517 and 520 thru 534. JA is for others.

Duluted frame laws//increfen/Minderen F 0.0.0 au 40 Au	. OOOF. To make all also at alasta a	and a 40 0004 (East in all). Nations	After 00 Lun 0004 00007	
Printed from Jeppview for Windows 5.3.0.0 on 12 AD	r 2025: Terminal chart data c	:VCIE 12-2024 (EXDIFED): NOTICE:	After 20 Jun 2024, 0000Z	. This chart may no londer be valid
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ZSHC, XIAOS	/HGH 6HAN 15 /	SJEPPESEN HANGZHOU, PR OF CHIN 15 MAR 24 10-1P3 Eff 20 Mar 1600Z AIRPORT BRIEFING				CHINA
		3. DEPAR	TURE			
3.3.	NOISE ABATEM With take-off perfor far as possible. During reduced-thrus	NOISE ABATEMENT PROCEDURES With take-off performance permission, pilot shall take reduced-thrust flight as far as possible. During reduced-thrust flight:				
	Take-off to 1480'/45	0m - Take-off fla - Climb at V ₂ -	ps/slats; +20km/h	; (10 KT).		
	At 1480'/450m	- Adjust and k - Take-off fla	keep engi ps/slats;	ine climbing po ;	ower and th	rust;

- Climb at V_2 +20km/h (10 KT).

ACFT shall finish RWY alignment within 60 seconds from holding position (except for wet or contaminated RWY). If unable, inform TWR before entering RWY. During initial contact after take-off, pilot shall report take-off RWY designation

If noise abatement procedure is not implemented, report the reason to ATC

- Adjust to en-route climb speed and retract flaps and

slats.

At 2960'/900m

before take-off.

to ATC.

RWY OPERATIONS

3.4.



CHANGES: APPØ7.

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CHANGES: LOST COMMS note.

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ZSHC/HGH

JEPPESENHANGZHOU, PR OF CHINA 3 MAY 24 10-9A Eff 15 May 1600Z XIAOSHAN

XIAOSHAN

ADDITIONAL RUNWAY INFORMATION								
RWY					Threshold GI	ide Slope TAK	E-OFF	WIDTH
⁰⁶	HIRL (60	0m) CL (15m) 🖸	HIALS-II SFL T	DZ 🕄 🕢 RVR	10,1	48' 3093m	8	197'
24	HIRL (60	Dm) CL (15m) 2	HIALS SFL		- ,		•	60m
" 0 ₂₅	HIRL (60	Dm) CL (15m) 🗹	HIALS SFL G		10,7	'97' 3291m	8	148′ 45m
Rwy grooved								
length 900m								
HSTIL-	C5 & C	6						
G HSTIL-	A5 & A	5 .6						
G HSTIL-A4 & A3								
PAPI-L (angle 3.0°)								
TAKE-OFF RUN AVAILABLE (If pilot can not accept int take-off, inform ATC immediately.) RWY 06:								
From	wy hea	id 11,155	(3400 m)	From rwy	head 11,155	5' (3400m)		
t DMCC	wy C2	int 10,456'	′ (3187m)	twy	C7 int 10,456	5′ (3187m)		
From r	wv hea	d 11,811'	(3600m)	RWY 25: From rwy		l' (3600m)		
t	wy A2	int 11,115	(3388m)	twy	A7 int 11,115	5' (3388m)		
HOT SPOTS								
HS1 Aircraft shall hold short of TWYs J. K. B10 before enter TWY A. Aircraft are								
	forbic	den to ente	r TWY A with	out ATC clear	ance. Aircraft	taxiing from		
TWY B10 to TWY A shall avoid entering TWY A6 by mistake.								
HS2	Aircra	aft shall hol	d short of TW	Ys B6 or B7 b	efore enter TV	VY A. Aircraf	t are	
	TWYs	B6 or B7 to	TWY A shall	avoid enterin	ance. Aircraft a TWY A5 by r	nistake.		
HS3 Aircraft shall hold short of TWY B3 before enter TWY A. Aircraft are								
forbidden to enter TWY A without ATC clearance. Aircraft taxiing from								
IWY B3 to TWY A shall avoid entering TWY A4 by mistake.								
[HS4] Aircraft shall hold short of TWY D5 before enter TWY C. Aircraft are								
TORPIGGEN TO ENTER INVIC WITHOUT AIC CLEARANCE. AIRCRAFT TAXING from TWY D5 to TWY C shall avoid entering TWY C4 by mistake.								
HS5 Aircraft shall hold short of TWYs D8 or D7 before enter TWY C. Aircraft are								
TWYs D7 or D8 to TWY C shall avoid entering TWY C5 by mistake.								
Ŭ ,								
HS6 Aircraft shall hold short of TW/Ys I K I hafara antar TW/Y C Aircraft are								
forbidden to enter TWY C without ATC clearance. Aircraft taxiing from								
TWYs J or K to TWY C shall avoid entering TWY C6 by mistake.								
State TAKE-OFF (with reliable alternate)								
	Γ	Rwy 06	Rwys 06/24	Rwys	07/25	All Rwys		
			LVP mu	st be in force		RL & RCLM	NIL (D	AY only)
		HUD & RL & CL	RL & CL	HUD & RL & CL	RL & CL			· · · · · · · · · · · · · · · · · · ·
2 TURB End	. Ĥ	D150	DOO.	DDOO	DOO	R400m	R5	00m
or 3 & 4 Er		RISUM	K200m	K200m	κ 200m	V800m	V8	00m
Other 1 &	2 Eng		Ceiling 100m/V1600m					

CHANGES: None.

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CHANGES: Apron, TWYs D4, E4 and J6.

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CHANGES: None.

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CHANGES: Stands 106A, 107 and 108 withdrawn.

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ZS	HC/HGH					
		14 JUL 23				
ST	RAIGHT-IN RWY	Α	В	c	D	
06	CAT 2 RNAV ILS DME Z	122 ′(100′)	122 ′(100′)	122 ′(100′)	122'(100')	
	or CAT 2 ILS DME Y	RA102′	RA102′	RA102′	RA102′	
		R300m	R300m	R300m	• R300m	
0	SA CAT 2 RNAV ILS DME Z	122 ′(100')	122 ′(100')	122 ′(100')	122 ′(100')	
	or 2 SA CAT 2 ILS DME Y	RA102′	RA102′	RA102′	RA102′	
		🚯 R350m	🚯 R350m	🚯 R350m	🚯 R350m	
0	SA CAT 1 RNAV ILS DME Z	172 ′(150')	172 ′(150')	172 ′(150')	172 ′(150')	
	or 2 SA CAT 1 ILS DME Y	RA151′R450m	RA151′R450m	RA151′R450m	RA151′R450m	
	RNAV ILS DME Z	222 ′(200')	222 ′(200')	222 ′(200')	222 ′(200')	
	or ILS DME Y	R550m V800m	R550m V800m	R550m V800m	R550m V800m	
	TDZ or CL out	• R550m V800m	• R550m V800m	O R550mV800m	O R550mV800m	
	ALS out	R/V1200m	R/V1200m	R/V1200m	R/V1200m	
	S LOC	560 ′(538')	560 ′(538')	560 ′(538')	560 ′(538′)	
		R/V2400m	R/V2400m	R/V2600m	R/V2800m	
	ALS out	R/V3200m	R/V3200m	R/V3200m	R/V3200m	
07						
0	SA CAT 2 RNAV ILS DME Z	122 ′(100')	122 ′(100')	122′(100′)	122 ′(100')	
	or CAT 2 ILS DIME T	RA105/	RA105'	RA105/	RA105'	
		• R350m	• R350m	8 R350m	• R350m	
0	SA CAT 1 RNAV ILS DME Z	172 ′(150′)	172 ′(150′)	172 ′(150′)	172 ′(150′)	
	or 🕑 SA CAT TILS DME Y	RA155 ′R450m	RA155 ′R450m	RA155 ′R450m	RA155 ′R450m	
	RNAV ILS DME Z	222 ′(200′)	222 ′(200')	222 ′(200')	222 ′(200′)	
	or ILS DME Y	⊙ R550mV800m	⊙ R550mV800m	O R550mV800m	G R550mV800m	
	ALS out	R/V1200m	R/V1200m	R/V1200m	R/V1200m	
	S LOC	430′(408′)	430′(408′)	430′(408′)	430′(408′)	
		R/V1600m	R/V1600m	R/V1800m	R/V2000m	
	ALS out	R/V2400m	R/V2400m	R/V2400m	R/V2400m	
	• VOR DME	500 ′(478′)	500 ′(478′)	500 ′(478′)	500 ′(478′)	
		R/V2000m	R/V2000m	R/V2200m	R/V2400m	
	ALS out	R/V2800m	R/V2800m	R/V2800m	R/V2800m	
24		122(100')	122/(100')	122/(100')	122(100')	
U	or 2 SA CAT 2 RNAV ILS DME 2	PA102/	PA 102/	PA102/	PA 102/	
	-	6 P350m	6 P350m	6 P350m	6 P350m	
•		172 /(150')	172 /(150')	172 /(150')	172 /(150')	
U	or 2 SA CAT 1 ILS DME 2	PA155(P450m)	PA155(P450m)	PA155(P450m)	PA155 (P450m	
		222 (200')	222 (200')	222 (200')	222 (200')	
	or ILS DME Y					
		₩ K550m V800m	₩ K550m V800m	₩ K550m V800m	₩ K550m V800m	
		500//479/	500//479/	500//479/	500(/479)	
		R/1/2000m	R/1/2000m	R/1/2200m	R/1/2400m	
	ALS OUT	ι κ/ vzouum	ι κ/ν2000m	ι κ/ν2ουυπ	K/V2000m	

• Requires autoland or HUDLS, otherwise: R350m.

O HUD required.

G CL out: R400m.

• R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

• Continuous Descent Final Approach.

ZS	HC/HGH	14 JUL 23	PESEN PSI) HAI	NGZHOU, PF	easa air ops R OF CHINA XIAOSHAN
ST	RAIGHT-IN RWY	Α	В	С	D
25 0	SA CAT 2 RNAV ILS DME Z or ① SA CAT 2 ILS DME Y	122'(100') RA105'	122'(100') RA105'	122'(100') RA105'	122'(100') RA105'
		🛿 R350m	🛿 R350m	🛿 R350m	🛿 R350m
0	SA CAT 1 RNAV ILS DME Z or ① SA CAT 1 ILS DME Y	172′(150') RA155′R450m	172 ′(150 ′) RA155 ′R450m	172 ′(150') RA155 ′R450m	172 ′(150 ′) RA155 ′R450m
	RNAV ILS DME Z or ILS DME Y	222' (200') SR550m V800m	222 ′(200') 3 R550m V800m	222 ′(200′) ❸R550mV800m	222′ (200 ′) ❸R550mV800m
	ALS out	R/V1200m	R/V1200m	R/V1200m	R/V1200m
	O LOC	460 ′(438')	460 ′(438')	460 ′(438')	460 ′(438')
		R/V1800m	R/V1800m	R/V2000m	R/V2200m
	ALS out	R/V2600m	R/V2600m	R/V2600m	R/V2600m
	O VOR DME	500 ′(4 78 ′)	500 ′(4 78 ′)	500 ′(4 78 ′)	500 ′(4 78 ′)
		R/V2000m	R/V2000m	R/V2200m	R/V2400m
	ALS out	R/V2800m	R/V2800m	R/V2800m	R/V2800m

• HUD required.

O CL out: R400m.

S R750m when a Flight Director or Autopilot or HUDLS to DA is not used.

• Continuous Descent Final Approach.

CIRCLE-TO-LAND O	100 KT	135 KT	180 KT	205 KT
	1420 ′(1398')	1420 ′(1398')	1510 ′(1488')	1510 ′(1488')
	V3200m	V3600m	V4800m	V5000m

• Not authorized North of runway

TAKE-OFF							
	Rwy 06	Rwys 06/24	Rwys	07/25	All Rwys		
		Low Visibility I	Procedures requi	red.			
	App	proval for Low Vi	sibility Take-off	f required	RL & RCLM	NIL (DAY only)	
	HUD & RL & CL	RL & CL	HUD & RL & CL	RL & CL			
A 2 TURB Eng B or 3 & 4 Eng C D	R150m	R200m	R200m	R200m	R400m V800m	R500m V800m	
Other 1 & 2 Eng	Minimums not established by CAAC				Ceiling 10	0m/V1600m	



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JeppView for Windows

Chart changes since cycle 11-2024

ADD = added chart, REV = revised chart, DEL = deleted chart. ACT PROCEDURE IDENT INDEX REV DATE EFF DATE

BANGKOK, (DON MUEANG INTL - VTBD)

HANGZHOU, (XIAOSHAN - ZSHC)



TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport VTBD

Chart Change Notices for Airport ZSHC

Type: Terminal Effectivity: Temporary Begin Date: 20221005 End Date: Until Further Notice

Construction works on ramps and taxiways (based on SUP 008/22, from Eff 12 Jul 23 SUP 007/23). Refer to temporary chart 10-8 and latest NOTAMs.

Chart Change Notices for Country THA

Type: Gen Tmnl Effectivity: Temporary Begin Date: 20230615 End Date: 20240715

STN VOR is temporarily suspended. Waypoint SAPUD (090746.24N 0990805.09E) is established at the same coordinates of STN VOR.

Communication Information For VHHK FIRINMARSAT Service: INMARSAT SECURITY NUMBER FOR

HONG KONG ATC IS 441299

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC:			
HONG KONG RADAR	118 92 MHz	(R)	
HONG KONG RADAR	121 3 MHz	(R)	
HONG KONG RADAR	122.95 MHz	(R)	
HONG KONG RADAR	123 47 MHz	(R)	
HONG KONG RADAR	123.7 MHz	(R)	Secondary
HONG KONG RADAR:	123.95 MHz	(R)	ocoondary
	125.00 MHZ	(R)	
HONG KONG RADAR	125.32 MHz	(R)	
HONG KONG RADAR	125.8 MHz	(R)	
HONG KONG RADAR:	126.3 MHz	(R)	
HONG KONG RADAR	126.5 MHz	(R)	
HONG KONG RADAR	127.1 MHz	(R)	
HONG KONG RADAR	127.55 MHz	(R)	
HONG KONG RADAR	128 12 MHz	(R)	
HONG KONG RADAR	128 75 MHz	(R)	Secondary
HONG KONG RADAR	132 15 MHz	(R)	Occorridary
HONG KONG RADAR	132 52 MHz	(R)	Secondary
HONG KONG RADAR	132.6 MHz	(R)	Secondary
HONG KONG RADAR	132 77 MHz	(R)	Secondary
HONG KONG RADAR	132.8 MHz	(R)	Secondary
HONG KONG RADAR	134.3 MHz	(R)	Secondary
HONG KONG RADAR	135.6 MHz	(R)	Secondary
	100.0 10112	(14)	Coolidary
Type: Information:			
HONG KONG	121 0 MHz		FIS
HONG KONG	122 07 MHz		FIS Secondary
HONG KONG	122.01 MHz		FIS
			110
Type: Radar			
HONG KONG:	126.3 MHz	(R)	
		(**)	
Type: Radio			
HONG KONG	13309 kHz		Secondary
HONG KONG	5655 kHz		Secondary
HONG KONG	8942 kHz		Secondary
Hono Rono.			Occondary
HONG KONG	128 87 MHz		
HONG KONG	13282 kHz		
HONG KONG	6679 kHz		
HONG KONG	8828 kHz		
	0020 KI IZ		

Communication Information For VLVT FIR

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC: VIENTIANE: VIENTIANE:	124.1 MHz 128.3 MHz	(R) (R)	

Communication Information For VTBB ACC Both (ACC Sector)

FIR/UIR Communications Printed on 12 Apr 2025 Page 2 (c) JEPPESEN SANDERSON, INC., 2025, ALL RI	GHTS RESERVED		JEPPE JeppView for Win	ESEN dows
Callsign:	Frequency	Radar	ServiceIndicators	
Type: ACC: BANGKOK CONTROL:	124.5 MHz			

124.5 MHz

Communication Information For VTBB FIRINMARSAT Service: INMARSAT SECURITY NUMBER FOR BANGKOK ACC IS 456702

Type: Control: BANGKOK CONTROL:

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC: BANGKOK CONTROL: BANGKOK CONTROL:	118.35 MHz 120.5 MHz 120.95 MHz 123.95 MHz 124.5 MHz 125.7 MHz 126.5 MHz 128.1 MHz 132.1 MHz 133.1 MHz 133.9 MHz 135.5 MHz	(R) (R) (R) (R) (R) (R) (R) (R) (R) (R)	
Type: VOLMET: BANGKOK: BANGKOK: BANGKOK:	11387 kHz 2965 kHz 6676 kHz		

Communication Information For VVHN ACC Both (ACC Sector)

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC: HA NOI: HA NOI:	128.15 MHz 132.3 MHz		

Communication Information For VVHN FIR

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC:			
HA NOI:	123.3 MHz	(R)	
HA NOI:	124.55 MHz	(R)	Secondary
HA NOI:	125.9 MHz	(R)	-
HA NOI:	128.15 MHz	(R)	Secondary
HA NOI:	132.3 MHz	(R)	-
HA NOI:	132.92 MHz	(R)	Secondary
HA NOI:	133.65 MHz	(R)	
HA NOI:	134.42 MHz	(R)	Secondary

Communication Information For VYYF ACC Both (ACC Sector)

Callsign:

Frequency

Radar

ServiceIndicators

Type: ACC: YANGON:

124.75 MHz

Communication Information For VYYF FIR CPDLC Service: CPDLC SERVICES ARE AVAILABLE WITH LOGON ADDRESS OF VYYF IN YANGON FIR CPDLC. SUITABLY EQUIPPED AIRCRAFT SHOULD LOG ON TO YANGON AFN LOGON

LOGON ADDRESS OF VYYF IN YANGON FIR CPDLC. SUITABLY EQUIPPED AIRCRAFT SHOULD LOG ON TO YANGON ADDRESS AT LEAST 10 MINUTES PRIOR TO ENTER YANGON FIR. INMARSAT Service: INMARSAT SECURITY NUMBER FOR YANGON ACC IS 450601

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC:			
YÁNGON:	124.75 MHz	(R)	
YANGON:	126.75 MHz	(R)	
YANGON:	127.75 MHz	(R)	
YANGON:	128.75 MHz	(R)	
Type: Radio:			
YÁNGON:	10066 kHz		
YANGON:	5526 kHz		Secondary
YANGON:	6556 kHz		Secondary
YANGON:	6659 kHz		Secondary
YANGON:	8960 kHz		Secondary

Communication Information For ZGZU ACC Both (ACC Sector)

Type: ACC:GUANGZHOU CONTROL:10066 kHzGUANGZHOU CONTROL:132.82 MHzGUANGZHOU CONTROL:134.25 MHzGUANGZHOU CONTROL:3491 kHz	Callsign:	Frequency	Radar	ServiceIndicators
GUANGZHOU CONTROL: 6556 kHz	Type: ACC: GUANGZHOU CONTROL: GUANGZHOU CONTROL: GUANGZHOU CONTROL: GUANGZHOU CONTROL: GUANGZHOU CONTROL:	10066 kHz 132.82 MHz 134.25 MHz 3491 kHz 6556 kHz		

Communication Information For ZGZU ACC High (ACC Sector High)

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC: GUANGZHOU CONTROL: GUANGZHOU CONTROL: GUANGZHOU CONTROL: GUANGZHOU CONTROL: GUANGZHOU CONTROL:	10066 kHz 124.52 MHz 133.9 MHz 3491 kHz 6556 kHz		

Communication Information For ZGZU ACC Low (ACC Sector Low)

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC: NANNING CONTROL: NANNING CONTROL: NANNING CONTROL: NANNING CONTROL:	10066 kHz 120.55 MHz 132.7 MHz 3491 kHz		
NANNING CONTROL:	6556 kHz		

Communication Information For ZGZU FIR

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC:			
GUANGZHOU CONTROL:	10066 kHz	(R)	
GUANGZHOU CONTROL:	118.95 MHz	(R)	
NANNING CONTROL:	118.97 MHz	(R)	
NANNING CONTROL:	119.32 MHz	(R)	
GUANGZHOU CONTROL:	119.37 MHz	(R)	
NANNING CONTROL:	120.55 MHz	(R)	Secondary
GUANGZHOU CONTROL:	120.75 MHz	(R)	-
GUANGZHOU CONTROL:	120.95 MHz	(R)	
GUANGZHOU CONTROL:	122.5 MHz	(R)	Secondary
CHANGSHA CONTROL:	123.2 MHz	(R)	-
CHANGSHA CONTROL:	123.72 MHz	(R)	Secondary
CHANGSHA CONTROL:	123.9 MHz	(R)	2
GUANGZHOU CONTROL:	124.45 MHz	(R)	
GUANGZHOU CONTROL:	124.52 MHz	(R)	Secondary
NANNING CONTROL:	124.57 MHz	(R)	5
GUANGZHOU CONTROL:	124.9 MHz	(R)	
GUANGZHOU CONTROL:	125.35 MHz	(R)	
GUANGZHOU CONTROL:	125.75 MHz	(R)	
GUANGZHOU CONTROL:	126.1 MHz	(R)	Secondary
GUANGZHOU CONTROL:	126.15 MHz	(R)	5
GUANGZHOU CONTROL:	126.75 MHz	(R)	
CHANGSHA CONTROL:	127.15 MHz	(R)	
CHANGSHA CONTROL:	127.35 MHz	(R)	Secondary
GUANGZHOU CONTROL:	127.5 MHz	(R)	, , , , , , , , , , , , , , , ,
GUANGZHOU CONTROL	128 1 MHz	(R)	
GUANGZHOU CONTROL	128.3 MHz	(R)	
NANNING CONTROL	128 37 MHz	(R)	
CHANGSHA CONTROL	128.55 MHz	(R)	
NANNING CONTROL	128.7 MHz	(R)	
GUANGZHOU CONTROL	128 72 MHz	(R)	
GUANGZHOU CONTROL	132 1 MHz	(R)	Secondary
GUANGZHOU CONTROL	132.3 MHz	(R)	coornaary
NANNING CONTROL	132.35 MHz	(R)	Secondary
GUANGZHOU CONTROL	132 4 MHz	(R)	Secondary
CHANGSHA CONTROL	132.55 MHz	(R)	Cocontacty
GUANGZHOU CONTROL	132.65 MHz	(R)	Secondary
NANNING CONTROL	132.00 MHz	(R)	Coordary
GUANGZHOU CONTROL	132.7 MHz	(R)	
CUANGZHOU CONTROL:	132.70 MHZ	(R)	
GUANGZHOU CONTROL:	132.02 MHz	(R)	Secondary
NANNING CONTROL	132.02 MHz	(R)	Secondary
	132.57 MHZ		Secondary
NANNING CONTROL	133.1 MH 7	(R)	
	133.1 MHZ		Secondary
	133.13 MIIZ 133.25 MII-	(IX) (R)	Secondary
CUANCZHOU CONTROL	133.25 MHZ 133.27 MH 2	(IX) (R)	
CUANCZHOU CONTROL	133 37 MU-	(IX) (R)	
NANNING CONTROL	133.4 MH 7	(R)	Secondary
		(1)	occondary

GUANGZHOU CONTROL:	133.47 MHz	(R)	
GUANGZHOU CONTROL:	133.52 MHz	(R)	
NANNING CONTROL:	133.6 MHz	(R)	
NANNING CONTROL:	133.75 MHz	(R)	
GUANGZHOU CONTROL:	133.77 MHz	(R)	Secondary
GUANGZHOU CONTROL:	133.85 MHz	(R)	-
GUANGZHOU CONTROL:	133.9 MHz	(R)	
NANNING CONTROL:	133.95 MHz	(R)	
GUANGZHOU CONTROL:	133.97 MHz	(R)	
NANNING CONTROL:	134.02 MHz	(R)	
GUANGZHOU CONTROL:	134.15 MHz	(R)	Secondary
GUANGZHOU CONTROL:	134.2 MHz	(R)	Secondary
GUANGZHOU CONTROL:	134.25 MHz	(R)	Secondary
NANNING CONTROL:	134.37 MHz	(R)	
GUANGZHOU CONTROL:	134.5 MHz	(R)	
GUANGZHOU CONTROL:	134.8 MHz	(R)	
CHANGSHA CONTROL:	135.1 MHz	(R)	
GUANGZHOU CONTROL:	135.45 MHz	(R)	
CHANGSHA CONTROL:	3016 kHz	(R)	
GUANGZHOU CONTROL:	3491 kHz	(R)	
GUANGZHOU CONTROL:	6556 kHz	(R)	Secondary
CHANGSHA CONTROL:	6571 kHz	(R)	Secondary
CHANGSHA CONTROL:	8897 kHz	(R)	
Type: VOLMET:			
GUANGZHOU:	13285 kHz		
GUANGZHOU:	3458 kHz		
GUANGZHOU:	5673 kHz		
GUANGZHOU:	8849 kHz		

Communication Information For ZPKM ACC Both (ACC Sector)

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC: LHASA CONTROL: KUNMING CONTROL: KUNMING CONTROL: KUNMING CONTROL: KUNMING CONTROL:	10066 kHz 119.3 MHz 127.5 MHz 3491 kHz 6556 kHz		

Communication Information For ZPKM FIRINMARSAT Service: INMARSAT SECURITY NUMBER FOR

KUNMING ACC IS 441204 INMARSAT SECURITY NUMBER FOR CHENGDU ACC IS 441202

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC:			
GUIYANG CONTROL:	10066 kHz	(R)	
CHENGDU CONTROL:	118.95 MHz	(R)	
KUNMING CONTROL:	119.3 MHz	(R)	Secondary
CHENGDU CONTROL:	119.32 MHz	(R)	
LHASA CONTROL:	119.37 MHz	. ,	
CHENGDU CONTROL:	120.52 MHz	(R)	Secondary
GUIYANG CONTROL:	120.7 MHz	(R)	-
KUNMING CONTROL:	120.77 MHz	(R)	
CHENGDU CONTROL:	120.9 MHz	(R)	
GUIYANG CONTROL:	122.2 MHz	(R)	Secondary
CHENGDU CONTROL:	122.8 MHz	(R)	
CHENGDU CONTROL:	123.77 MHz	(R)	
KUNMING CONTROL:	124.55 MHz	(R)	
CHENGDU CONTROL:	124.57 MHz	(R)	
CHENGDU CONTROL:	124.95 MHz	(R)	

KUNMING CONTROL:	125.35 MHz	(R)	Secondary
CHENGDU CONTROL:	125.7 MHz	(R)	•
KUNMING CONTROL:	125.75 MHz	(R)	
CHENGDU CONTROL:	125.95 MHz	(R)	
CHENGDU CONTROL:	126.15 MHz	(R)	Secondary
KUNMING CONTROL:	127.5 MHz	(R)	
CHENGDU CONTROL:	127.55 MHz	(R)	
GUIYANG CONTROL:	128.15 MHz	(R)	
CHENGDU CONTROL:	128.35 MHz	(R)	
CHENGDU CONTROL:	132.12 MHz	(R)	
KUNMING CONTROL:	132.17 MHz	(R)	
CHENGDU CONTROL:	132.25 MHz	(R)	
CHENGDU CONTROL:	132.3 MHz	(R)	
LHASA CONTROL:	132.35 MHz	. ,	
GUIYANG CONTROL:	132.37 MHz	(R)	
CHENGDU CONTROL:	132.47 MHz	(R)	
CHENGDU CONTROL:	132.6 MHz	(R)	
CHENGDU CONTROL:	132.67 MHz	(R)	
GUIYANG CONTROL:	132.85 MHz	(R)	
CHENGDU CONTROL:	133.0 MHz	(R)	
CHENGDU CONTROL:	133.07 MHz	(R)	Secondary
CHENGDU CONTROL:	133.12 MHz	(R)	
CHENGDU CONTROL:	133.22 MHz	(R)	
CHENGDU CONTROL:	133.3 MHz	(R)	Secondary
CHENGDU CONTROL:	133.45 MHz	(R)	Secondary
CHENGDU CONTROL:	133.65 MHz	(R)	
CHENGDU CONTROL:	133.8 MHz		
CHENGDU CONTROL:	133.87 MHz	(R)	
GUIYANG CONTROL:	133.92 MHz	(R)	Secondary
CHENGDU CONTROL:	134.0 MHz	(R)	
CHENGDU CONTROL:	134.05 MHz	(R)	Secondary
CHENGDU CONTROL:	134.22 MHz	(R)	
CHENGDU CONTROL:	134.3 MHz	(R)	
KUNMING CONTROL:	134.35 MHz	(R)	
CHENGDU CONTROL:	134.45 MHz	(R)	Secondary
CHENGDU CONTROL:	134.75 MHz	(R)	Secondary
CHENGDU CONTROL:	3016 kHz	(R)	
GUIYANG CONTROL:	3491 kHz	(R)	. .
GUIYANG CONTROL:	6556 kHz	(R)	Secondary
CHENGDU CONTROL:	6571 kHz	(R)	Secondary
CHENGDU CONTROL:	8897 kHz	(R)	

Communication Information For ZSHA ACC Both (ACC Sector)

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC: SHANGHAI CONTROL: SHANGHAI CONTROL: SHANGHAI CONTROL: SHANGHAI CONTROL: SHANGHAI CONTROL:	123.7 MHz 125.32 MHz 3016 kHz 6571 kHz 8897 kHz		

Communication Information For ZSHA ACC High (ACC Sector High)

Callsign:

Frequency

Radar

ServiceIndicators

Type: ACC: SHANGHAI CONTROL: SHANGHAI CONTROL: SHANGHAI CONTROL:

123.7 MHz 125.95 MHz 3016 kHz SHANGHAI CONTROL: SHANGHAI CONTROL: 6571 kHz 8897 kHz

Communication Information For ZSHA ACC Low (ACC Sector Low)

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC: NANCHANG CONTROL: NANCHANG CONTROL: JINAN CONTROL: JINAN CONTROL: JINAN CONTROL:	124.15 MHz 130.3 MHz 3016 kHz 6571 kHz 8897 kHz		

Communication Information For ZSHA FIR

Callsign:	Frequency	Radar	ServiceIndicators
Type: ACC:			
SHANGHAI CONTROL:	118.97 MHz	(R)	
SHANGHAI CONTROL:	119.3 MHz	(R)	Secondary
SHANGHAI CONTROL:	120.1 MHz	(R)	2
NANCHANG CONTROL:	120.5 MHz	(R)	
XIAMEN CONTROL:	120.52 MHz	(R)	
SHANGHAI CONTROL:	120.55 MHz	(R)	
SHANGHAI CONTROL:	120.7 MHz	(R)	
SHANGHAI CONTROL:	120.75 MHz	(R)	
SHANGHAI CONTROL:	120.9 MHz	(R)	
SHANGHAI CONTROL:	120.95 MHz	(R)	
JINAN CONTROL:	122.9 MHz	(R)	
XIAMEN CONTROL:	123.22 MHz	(R)	
SHANGHAI CONTROL:	123.27 MHz	(R)	Secondary
SHANGHAI CONTROL:	123.37 MHz	(R)	
SHANGHAI CONTROL:	123.7 MHz	(R)	Secondary
SHANGHAI CONTROL:	123.77 MHz	(R)	
SHANGHAI CONTROL:	123.95 MHz	(R)	
SHANGHAI CONTROL:	124.1 MHz	(R)	
NANCHANG CONTROL:	124.15 MHz	(R)	
XIAMEN CONTROL:	124.55 MHz	(R)	
SHANGHAI CONTROL:	124.57 MHz	(R)	Secondary
SHANGHAI CONTROL:	124.95 MHz	(R)	
XIAMEN CONTROL:	125.3 MHz	(R)	Secondary
SHANGHAI CONTROL:	125.32 MHz	(R)	
NANCHANG CONTROL:	125.37 MHz	(R)	
JINAN CONTROL:	125.7 MHz	(R)	
HEFEI CONTROL:	125.77 MHz	(R)	
NANCHANG CONTROL:	125.9 MHz	(R)	
SHANGHAI CONTROL:	125.95 MHz	(R)	
SHANGHAI CONTROL:	125.97 MHz	(R)	
HEFEI CONTROL:	126.12 MHz	(R)	
QINGDAO CONTROL:	126.15 MHz	(R)	Secondary
SHANGHAI CONTROL:	126.17 MHz	(R)	
SHANGHAI CONTROL:	126.9 MHz	(R)	
NANCHANG CONTROL:	127.52 MHz	(R)	
SHANGHAI CONTROL:	127.55 MHz	(R)	Secondary
SHANGHAI CONTROL:	128.12 MHz	(R)	
QINGDAO CONTROL:	128.15 MHz	(R)	
HEFEI CONTROL:	128.17 MHz	(R)	Secondary
SHANGHAI CONTROL:	128.32 MHz	(R)	
JINAN CONTROL:	128.35 MHz	(R)	
QINGDAO CONTROL:	128.55 MHz	(R)	



SHANGHAI CONTROL:	128.7 MHz	(R)	
SHANGHAI CONTROL:	128.75 MHz	(R)	
NANCHANG CONTROL:	130.3 MHz	(R)	Secondary
SHANGHAI CONTROL:	132.05 MHz	(R)	• •
SHANGHAI CUNTRUL:	132.1 MHZ	(R)	Secondary
	132.12 MHZ	(R) (D)	Casandami
	132.27 IVITZ		Secondary
	132.3 IVITIZ		Secondary
	132.32 MHz	(R)	
SHANGHALCONTROL	132.37 MHz	(R)	
SHANGHAI CONTROL	132 45 MHz	(R)	
SHANGHAI CONTROL	132.5 MHz	(R)	
SHANGHAI CONTROL:	132.62 MHz	(R)	
XIAMEN CONTROL:	132.72 MHz	(R)	Secondary
SHANGHAI CONTROL:	132.75 MHz	(R)	Secondary
QINGDAO CONTROL:	132.82 MHz	(R)	Secondary
SHANGHAI CONTROL:	132.9 MHz	(R)	Secondary
QINGDAO CONTROL:	132.95 MHz	(R)	-
SHANGHAI CONTROL:	133.0 MHz	(R)	
QINGDAO CONTROL:	133.05 MHz	(R)	
SHANGHAI CONTROL:	133.07 MHz	(R)	
QINGDAO CONTROL:	133.15 MHz	(R)	
XIAMEN CONTROL:	133.17 MHz	(R)	
SHANGHAI CONTROL:	133.22 MHz	(R)	
SHANGHAI CONTROL:	133.27 MHz	(R)	<u> </u>
SHANGHAI CONTROL:	133.32 MHz	(R)	Secondary
SHANGHAI CONTROL:	133.4 MHZ	(R)	Secondary
	133.45 MHZ	(R) (D)	Secondary
	133.47 IVITZ		Secondary
			Secondary
	133.05 MHz		Secondary
	133.72 MHz	(R)	Gecondary
SHANGHALCONTROL	133.8 MHz	(R)	
NANCHANG CONTROL	133.82 MHz	(R)	
JINAN CONTROL:	133.85 MHz	(R)	Secondary
SHANGHAI CONTROL:	133.87 MHz	(R)	,
QINGDAO CONTROL:	133.95 MHz	(R)	Secondary
SHANGHAI CONTROL:	133.97 MHz	(R)	
SHANGHAI CONTROL:	134.0 MHz	(R)	Secondary
SHANGHAI CONTROL:	134.05 MHz	(R)	Secondary
QINGDAO CONTROL:	134.12 MHz	(R)	
SHANGHAI CONTROL:	134.2 MHz	(R)	Secondary
GUANGZHOU CONTROL:	134.25 MHz	(R)	Secondary
SHANGHAI CONTROL:	134.3 MHz	(R)	
JINAN CONTROL:	134.37 MHz	(R)	<u> </u>
SHANGHAI CONTROL:	134.4 MHZ	(R)	Secondary
HEFELCONTROL:	134.42 MHZ	(R)	
	134.47 MHZ	(R) (D)	
	134.33 MHZ		
	134.7 WILZ	(R)	
SHANGHALCONTROL	134.05 MHz	(R)	
SHANGHAI CONTROL:	135.0 MHz	(R)	
SHANGHAI CONTROL	135.05 MHz	(R)	
HEFEI CONTROL:	135.4 MHz	(R)	
SHANGHAI CONTROL:	135.5 MHz	(R)	Secondarv
HEFEI CONTROL:	135.65 MHz	(R)	,
SHANGHAI CONTROL:	135.7 MHz	(R)	Secondary
NANCHANG CONTROL:	135.72 MHz	(R)	Secondary
SHANGHAI CONTROL:	135.75 MHz	(R)	-
HEFEI CONTROL:	3016 kHz	(R)	
HEFEI CONTROL:	6571 kHz	(R)	Secondary
HEFEI CONTROL:	8897 kHz	(R)	



Operational Notes

Page 1 Strip Charts

HUA HIN Type: Class D Airspace

Notes: EXCLUDING VTR3.

ALFA CONTROL AREA Type: Control Area (Airport)

Notes: ALFA CTA (B), PRIOR TO ENTERING, VFR AIRCRAFT MUST CONTACT BANGKOK ACC AND REPORT POSITION. EXCLUDES VT(D) 16, 19 AND 47.

ALFA CTA (B), PRIOR TO ENTERING, VFR AIRCRAFT MUST CONTACT BANGKOK ACC AND REPORT POSITION. EXCLUDES VT(D) 16, 19 AND 47.

NANNING CTA ZGNNAR12 Type: Control Area (Airport)

Notes: CONTACT ZGNNAR10 WHEN ZGNNAR12 U/S

SANYA CTA ZJSYAR01 Type: Control Area (Airport)

Notes: EXCLUDE ZJSYAR04

SANYA CTA ZJSYAR04 Type: Control Area (Airport)

Notes: CONTACT ZJSYAR01 WHEN ZJSYAR04 U/S.

BANGKOK CTR Type: Control Zone (CTZ/CTR)

Notes: EXCLUDING KAMPHAENG SAEN CTR, VT(D)-16, (D)-17, (D)-18, (D)-72.

CAT BI CTR Type: Control Zone (CTZ/CTR)

Notes: EXCLUDING KIEN AN CTA

KAMPHAENG SAEN CTR Type: Control Zone (CTZ/CTR)

Notes: EXCLUDING BANGKOK CONTROL ZONE

KHORAT CTR Type: Control Zone (CTZ/CTR)

Notes: KHORAT CTR (C) ALL INBOUND TRAFFIC CONTACT KHORAT APP ON 129.75 OR 349.0 MHZ PRIOR TO ENTERING.

NOI BAI CTR Type: Control Zone (CTZ/CTR)

Notes: NOI BAI TOWER PROVIDES ATC SERVICE ONLY WITHIN 5NM CENTERED ON VOR/DME NOB AND FROM GND TO 2000'. THE SERVICE PROVISION IN OTHER PARTS OF CTR ARE DELEGATED TO NOI BAI APP.

PHU BAI CTR Type: Control Zone (CTZ/CTR)

Notes: VERTICAL LIMIT IS 5000' FOR AIRSPACE OVERLAP DA NANG TWR AND PHU BAI TWR.

SUKHOTHAI CTR Type: Control Zone (CTZ/CTR)

Notes: EXCLUDING PHITSANULOK TMA

TAKHLI CTR Type: Control Zone (CTZ/CTR)

Notes: EXCLUDING ALFA CONTROL AREA, VT D31 AND NAKHON SWAN AD TRAFFIC ZONE.

VDPF Type: FIR

Notes: ALL AIRCRAFT IN THE PHNOM PENH FIR ARE UNDER THE CONTROL OF PHNOM PENH ACC ON FREQUENCY 127.5 MHZ.

VTBB Type: FIR

Notes: RVSM AIRSPACE FL290-FL410 INCLUSIVE. AIRSPACE CLASSIFICATION IS DEFINED ALL ATS ROUTES WITHIN BANGKOK FIR ARE AS FOLLOWS: CLASS A FROM FL290 AND ABOVE CLASS B FROM FL280 AND BELOW AIRWAY USABLE ONLY FOR AIRCRAFT WITH AUTOMATED NAVIGATION SYSTEMS. INMARSAT: INMARSAT SECURITY NUMBER FOR BANGKOK ACC IS 456702 INMARSAT: EASTBOUND FROM YANGON {VYYF} FIR CONTACT BANGKOK CONTROL FREQ 128.1 OR 120.5 AT LEAST 15 MINUTES PRIOR TO ENTERING BANGKOK FIR.

VVHM Type: FIR

Notes: CPDLC: CPDLC SERVICES FOR FANS-1/A EQUIPPED AIRCRAFT ARE AVAILABLE WITH LOGON ADDRESS OF VVHM IN HO CHI MINH FIR. LOGON SHOULD BE ESTABLISHED 15 TO 45 MINUTES PRIOR TO ENTERING THE DATA LINK AIRSPACE. DATA LINK ROUTES: L625, L628, L642, M765, M768, M771, N500, N892 CPDLC: INMARSAT: INMARSAT SECURITY NUMBER FOR HO CHI MINH ACC IS 457402 INMARSAT:



JeppView for Windows

Notes: CPDLC: CPDLC SERVICES ARE AVAILABLE WITH LOGON ADDRESS OF VYYF IN YANGON FIR CPDLC. SUITABLY EQUIPPED AIRCRAFT SHOULD LOG ON TO YANGON AFN LOGON ADDRESS AT LEAST 10 MINUTES PRIOR TO ENTER YANGON FIR. CPDLC: INMARSAT: INMARSAT SECURITY NUMBER FOR YANGON ACC IS 450601 INMARSAT:

ZGZU Type: FIR

Notes: ABOVE 19700' (6000M) THERE ARE FOLLOWING AIRSPACE CLASSES: 19700' (6000M)- 65700'(20000M) CLASS A AIRSPACE 65700'(20000M)-UNLTD CLASS D AIRSPACE AIRSPACE CLASS B DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE TRANSPORT AIRPORTS. FOR TRANSPORT AIRPORTS WITH THREE RUNWAYS (INCLUSIVE) OR MORE, THREE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 10.8NM (20KM), 21.6NM (40KM), AND 32.4NM (60KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 3000' (900M) ABOVE THE AIRPORT ELEVATION, FROM 3000' (900M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO QNE 19700' (6000M). FOR TRANSPORT AIRPORTS WITH TWO RUNWAYS, TWO-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 8.1NM (15KM) AND 16.2NM (30KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION, FROM 2000' (600M) ÀBOVÉ THE AIRPORT ELEVATION TO 11900' (3600M) ABOVE THE AIRPORT ELEVATION, MAXIMUM TO THE LOWER LIMIT OF CLASS A AIRSPACE. FOR TRANSPORT AIRPORTS WITH ONE RUNWAY, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 6.5NM (12KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE GENERAL AVIATION AIRPORTS WITH TOWER, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 2.7NM (5KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS D AND E DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A, B, C AND G AIRSPACE, IT CAN BE DESIGNATED AS CLASS D OR E AIRSPACE BASED ON OPERATION AND SAFETY REQUIREMENTS. AIRSPACE CLASS G DESIGNATED AS FOLLOWING: - THE AIRSPACE OUTSIDE OF CLASS B AND C AIRSPACE(CLASS W AIRSPACE EXCLUDED) AND BELOW 1000' (300M) AGL - AIRSPACE BELOW 19700' (6000M) MSL THAT DOES NOT AFFECT CIVIL AVIATION TRANSPORT FLIGHTS. AIRSPACE CLASS W DESIGNATED AS FOLLOWING: PART OF THE CLASS G AIRSPACE BELOW 400' (120M) AGL. RVSM AIRSPACE FL291-FL411 INCLUSIVE. ALL AIRCRAFT ENTERING OR EXITING PR OF CHINA SHALL CONTACT ATC 15-20 MINUTES PRIOR TO FIR ENTRY OR EXIT AND OBTAIN A CLEARANCE TO CROSS THE FIR BOUNDARIES.

ZJSA Type: FIR

Notes: ALL FLIGHTS ENTERING THE SANYA FIR SHOULD ESTABLISH TWO-WAY RADIO COMMUNICATION WITH SANYA ACC WITHIN FIVE MINUTES BEFORE DESIGNATED REPORTING POINTS. ABOVE 19700' (6000M) THERE ARE FOLLOWING AIRSPACE CLASSES: 19700' (6000M)- 65700'(20000M) CLASS A AIRSPACE 65700'(20000M)-UNLTD CLASS D AIRSPACE AIRSPACE CLASS B DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE TRANSPORT AIRPORTS. FOR TRANSPORT AIRPORTS WITH THREE RUNWAYS (INCLUSIVE) OR MORE, THREE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 10.8NM (20KM), 21.6NM (40KM), AND 32.4NM (60KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 3000' (900M) ABOVE THE AIRPORT ELEVATION, FROM 3000' (900M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO QNE 19700' (6000M). FOR TRANSPORT AIRPORTS WITH TWO RUNWAYS, TWO-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 8.1NM (15KM) AND 16.2NM (30KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION, FROM 2000' (600M) ABOVE THE AIRPORT ELEVATION TO 11900' (3600M) ABOVE THE AIRPORT ELEVATION, MAXIMUM TO THE LOWER LIMIT OF CLASS A AIRSPACE. FOR TRANSPORT AIRPORTS WITH ONE RUNWAY, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 6.5NM (12KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE GENERAL AVIATION AIRPORTS WITH TOWER, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 2.7NM (5KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS D AND E DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A, B, C AND G AIRSPACE, IT CAN BE DESIGNATED AS CLASS D OR E AIRSPACE BASED ON OPERATION AND SAFETY REQUIREMENTS. AIRSPACE CLASS G DESIGNATED AS FOLLOWING: - THE AIRSPACE OUTSIDE OF CLASS B AND C AIRSPACE(CLASS W AIRSPACE EXCLUDED) AND BELOW 1000' (300M) AGL - AIRSPACE BELOW 19700' (6000M) MSL THAT DOES NOT AFFECT CIVIL AVIATION TRANSPORT FLIGHTS. AIRSPACE CLASS W DESIGNATED AS FOLLOWING: PART OF THE CLASS G AIRSPACE BELOW 400' (120M) AGL. ALL AIRCRAFT ENTERING OR EXITING PR OF CHINA SHALL CONTACT ATC 15-20

ZPKM Type: FIR

Notes: INMÅRSAT: INMARSAT SECURITY NUMBER FOR KUNMING ACC IS 441204 INMARSAT: INMARSAT: INMARSAT SECURITY NUMBER FOR CHENGDU ACC IS 441202 INMARSAT: EMERGENCY PROCEDURES FOR ROUTE L888: - THE AVAILABLE ALTERNATE AIRPORTS FOR ROUTE L888 ARE KUNMING, CHENGDU, URUMQI AND KASHI. - THE PILOT SHALL FLY VIA REGULATED WAYPOINTS TO EVACUATE FROM ROUTE L888 WHEN EVACUATING OR ALTERNATING IS DECIDED IN AN EMERGENT CONDITION. THE BREAKING POINTS ARE: BIDRU - DIRECT TO KUNMING AIRPORT; MAKUL - DIRECT TO KUNMING AIRPORT; NIVUX - DIRECT TO XIC (VOR) - SB (NDB) - XFA (VOR) - KUNMING AIRPORT; LEVBA - DIRECT TO XIC (VOR) - SB (NDB) - XFA (VOR) -KUNMING AIRPORT; PEXUN - DIRECT TO JTG (VOR) - CHENGDU AIRPORT; SANLI - DIRECT TO JTG (VOR) - CHENGDU AIRPORT; LUVAR - DIRECT TO MEPEP - LUSMA - DUMIN - TUSLI - HAM (VOR) - MIMAR - VIKOL - FKG (VOR) - URUMQI AIRPORT; MUMAN - DIRECT TO LUSMA - DUMIN - TUSLI - HAM (VOR) -MIMAR - VIKOL - FKG (VOR) - URUMQI AIRPORT; LEBAK - DIRECT TO LUSMA/DUMIN - TUSLI - HAM (VOR) - MIMAR - VIKOL - FKG (VOR) - URUMQI AIRPORT; THE PILOT SHALL BE RESPONSIBLE FOR THE OBSTACLE CLEARANCE ALTITUDE AND MANEUVERING TRACK WHEN EMERGENCY DESCENT IS EXECUTED IN THE CONDITION OF AIR CABIN

DEPRESSURIZING. - INMARSAT ACC PHONE NUMBERS: KUNMING - 441204; CHENGDU - 441202; LANZHOU - 441205 OR 441215; URUMQI - 441208. RVSM AIRSPACE FL291-FL411 INCLUSIVE. ALL AIRCRAFT ENTERING OR EXITING PR OF CHINA SHALL CONTACT ATC 15-20 MINUTES PRIOR TO FIR ENTRY OR EXIT AND OBTAIN A CLEARANCE TO CROSS THE FIR BOUNDARIES. ABOVE 19700' (6000M) THERE ARE FOLLOWING AIRSPACE CLASSES: 19700' (6000M)- 65700'(20000M) CLASS A AIRSPACE 65700'(20000M)-UNLTD CLASS D AIRSPACE AIRSPACE CLASS B DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE TRANSPORT AIRPORTS. FOR TRANSPORT AIRPORTS WITH THREE RUNWAYS (INCLUSIVE) OR MORE, THREE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 10.8NM (20KM), 21.6NM (40KM), AND 32.4NM (60KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 3000' (900M) ABOVE THE AIRP

18 Type: Special Use Airspace

Notes: TRAINING AIRCRAFT AT FL200 AND ABOVE WILL BE AUTHORIZED BY BANGKOK ACC.

TRAINING AIRCRAFT AT FL200 AND ABOVE WILL BE AUTHORIZED BY BANGKOK ACC.

20 Type: Special Use Airspace

Notes: EXCLUDING HUA HIN CTR, TMA, AND G458.

32 Type: Special Use Airspace

Notes: EXCLUDING KHORAT CONTROL ZONE AND BURI RAM TERMINAL CONTROL AREA.

34 Type: Special Use Airspace

Notes: EXCLUDING AIRWAY W21.

41 Type: Special Use Airspace

Notes: EXCLUDING AIRWAY W20 BETWEEN FL75-FL200 CHIANG MAI TMA AND CHIANG RAI TMA.

47 Type: Special Use Airspace

Notes: AIRCRAFT DEPARTING FROM DON MUEANG INTERNATIONAL AIRPORT MUST CONTACT DON MUEANG APPROACH. BEFORE LEAVING VT D47 THE PILOT MUST REPORT HIS POSITION, DISTANCE AND HEADING TO BANGKOK APPROACH.

57 Type: Special Use Airspace

Notes: EXCLUDES AIRWAY W-9.

EXCLUDES AIRWAY W-9.

72 Type: Special Use Airspace

Notes: AIRCRAFT DEPARTING FROM DON MUEANG INTERNATIONAL AIRPORT MUST CONTACT DON MUEANG APPROACH, THE CONTROLLER WILL INSTRUCT THE PILOT TO REPORT OVER BANG BUA THONG (N13 56 10 E100 25 40) AT ALTITUDE NOT ABOVE 1,500 FEET BEFORE ENTERING VT D72. BEFORE LEAVING VT D72 THE PILOT MUST REPORT HIS POSITION, DISTANCE AND HEADING TO DON MUEANG APPROACH, THE CONTROLLER WILL INSTRUCT THE PILOT TO REPORT OVER PATHUMTHANI (N14 01 56 E100 32 55) AT ALTITUDE NOT ABOVE 1,000 FEET, THEN REPORT 3 NM WEST (N13 55 56 E100 33 35) AND THEN REPORT ENTERING DOWNWIND FOR LANDING RUNWAY 21L/21R OR RUNWAY 03/03L.

AIRCRAFT DEPARTING FROM DON MUEANG INTERNATIONAL AIRPORT MUST CONTACT DON MUEANG APPROACH, THE CONTROLLER WILL INSTRUCT THE PILOT TO REPORT OVER BANG BUA THONG (N13 56 10 E100 25 40) AT ALTITUDE NOT ABOVE 1,500 FEET BEFORE ENTERING VT D72. BEFORE LEAVING VT D72 THE PILOT MUST REPORT HIS POSITION, DISTANCE AND HEADING TO DON MUEANG APPROACH, THE CONTROLLER WILL INSTRUCT THE PILOT TO REPORT OVER PATHUMTHANI (N14 01 56 E100 32 55) AT ALTITUDE NOT ABOVE 1,000 FEET, THEN REPORT 3 NM WEST (N13 55 56 E100 33 35) AND THEN REPORT ENTERING DOWNWIND FOR LANDING RUNWAY 21L/21R OR RUNWAY 03R/03L.

SANYA APP CTL AREA ZJSYAP02 Type: Terminal Area

Notes: EXCLUDE ZJSYAP01

BANGKOK TMA EAST Type: Terminal Control Area

Notes: SPEED RESTRICTIONS WITHIN BANGKOK TMA BELOW 10000' 250KTS UNLESS PREVIOUSLY REMOVED BY ATC. VTBD ARRIVALS INTERMEDIATE APPROACH PHASE 210 KTS. FINAL APPROACH PHASE ON OR SHORTLY BEFORE THE CLOSING HEADING ON THE ILS 160KTS TO 180KTS. WHEN ESTABLISHED ON THE ILS 160KTS. EXCLUDING BANGKOK CONTROL ZONE.

BANGKOK TMA NORTH Type: Terminal Control Area

Notes: EXCLUDING BANGKOK CONTROL ZONE. SPEED RESTRICTIONS WITHIN BANGKOK TMA BELOW 10000' 250KTS UNLESS PREVIOUSLY REMOVED BY ATC. VTBD ARRIVALS INTERMEDIATE APPROACH PHASE 210 KTS. FINAL APPROACH PHASE ON OR SHORTLY BEFORE THE CLOSING HEADING ON THE ILS 160KTS TO 180KTS. WHEN ESTABLISHED ON THE ILS 160KTS.

BANGKOK TMA SOUTH Type: Terminal Control Area

Notes: EXCLUDING BANGKOK CONTROL ZONE, VT(D)-19. SPEED RESTRICTIONS WITHIN BANGKOK TMA BELOW 10000' 250KTS UNLESS PREVIOUSLY REMOVED BY ATC. VTBD ARRIVALS INTERMEDIATE APPROACH PHASE 210 KTS. FINAL APPROACH PHASE ON OR SHORTLY BEFORE THE CLOSING HEADING ON THE ILS 160KTS TO 180KTS. WHEN ESTABLISHED ON THE ILS 160KTS.

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BANGKOK TMA WEST Type: Terminal Control Area

Notes: SPEED RESTRICTIONS WITHIN BANGKOK TMA BELOW 10000' 250KTS UNLESS PREVIOUSLY REMOVED BY ATC. VTBD ARRIVALS INTERMEDIATE APPROACH PHASE 210 KTS. FINAL APPROACH PHASE ON OR SHORTLY BEFORE THE CLOSING HEADING ON THE ILS 160KTS TO 180KTS. WHEN ESTABLISHED ON THE ILS 160KTS. EXCLUDING BANGKOK CONTROL ZONE.

HUA HIN TMA Type: Terminal Control Area

Notes: HUA HIN TMA EXCLUDES VT(R)3, VT(R)8, AND G458 AIRWAY GND-11000'.

SAKON NAKHON TMA Type: Terminal Control Area

Notes: EXCLUDING NAKHON PHANOM CONTROL ZONE.

TAK TMA Type: Terminal Control Area

Notes: EXCLUDING A464, G473, VT D33 AND VT D56.

U-TAPAO Type: Terminal Control Area

Notes: EXCLUDES A. U-TAPAO CONTROL ZONE B. THAT PORTION OVERLAPPED BY BANGKOK ALFA CONTROL AREA AND HUA HIN TERMINAL CONTROL AREA. C. EXCLUDES ALL AIRSPACE ON AIRWAYS A464, R468, G463, AND G458 FROM FL65 TO FL460

U-TAPAO TMA Type: Terminal Control Area

Notes: EXCLUDES A. U-TAPAO CONTROL ZONE B. THAT PORTION OVERLAPPED BY BANGKOK ALFA CONTROL AREA AND HUA HIN TERMINAL CONTROL AREA. C. EXCLUDES ALL AIRSPACE ON AIRWAYS A464, R468, G463, AND G458 FROM FL65 TO FL460

EXCLUDES A. U-TAPAO CONTROL ZONE B. THAT PORTION OVERLAPPED BY BANGKOK ALFA CONTROL AREA AND HUA HIN TERMINAL CONTROL AREA. C. EXCLUDES ALL AIRSPACE ON AIRWAYS A464, R468, G463, AND G458 FROM FL65 TO FL460

EXCLUDES A. U-TAPAO CONTROL ZONE B. THAT PORTION OVERLAPPED BY BANGKOK ALFA CONTROL AREA AND HUA HIN TERMINAL CONTROL AREA. C. EXCLUDES ALL AIRSPACE ON AIRWAYS A464, R468, G463, AND G458 FROM FL65 TO FL460

ENBIL Type: Waypoint

Notes: A202 ON REQUEST.

LEKOB Type: Waypoint

Notes: ALL TRAFFIC ENTERING THE VIENTIANE FIR SHOULD ESTABLISH AND MAINTAIN TWO-WAY RADIO COMMUNICATION WITH VIENTIANE ACC AT LEAST THREE (3) MINUTES BEFORE DESIGNATED REPORTING POINT LEKOB INT

Page 2 Strip Charts

VHHH Type: Airport

Notes: FLIGHTS WITHIN 50NM OF HONG KONG INTL AIRPORT SHALL NOT FLIGHT PLAN TO CRUISE AT LEVELS BETWEEN 9000' AND FL120.

GUEIREN Type: Class E Airspace

Notes: EAST TRAFFIC PATTERN IS USED FOR RCXY AD.

SINSHE Type: Class E Airspace

Notes: EAST TRAFFIC PATTERN IS USED FOR RCWK AD.

AIRSPACE BENEATH HONG KONG TMA Type: Class G Airspace

Notes: REQUIRES AIRCRAFT OPERATING IN SUCH CLASS G AIRSPACE TO HAVE EQUIPMENT CAPABLE OF MAINTAINING DIRECT TWO-WAY COMMUNICATION WITH ATC.

REQUIRES AIRCRAFT OPERATING IN SUCH CLASS G AIRSPACE TO HAVE EQUIPMENT CAPABLE OF MAINTAINING DIRECT TWO-WAY COMMUNICATION WITH ATC.

CHANGSHA CTA ZGHAAR01 Type: Control Area (Airport) Notes: CONTACT ZGHAAR04 WHEN ZGHAAR01 U/S

NOLES. CONTACT ZGHAAR04 WHEN ZGHAAR01 0/5

CHANGSHA CTA ZGHAAR02 Type: Control Area (Airport)

Notes: CONTACT ZGHAAR04 WHEN ZGHAAR01 U/S

CHANGSHA CTA ZGHAAR03 Type: Control Area (Airport) Notes: CONTACT ZGHAAR02 WHEN ZGHAAR03 U/S

CHANGSHA CTA ZGHAAR05 Type: Control Area (Airport) Notes: CONTACT ZGHAAR01 WHEN ZGHAAR05 U/S

CHANGSHA CTA ZGHAAR06 Type: Control Area (Airport)
Notes: CONTACT ZGHAAR04 WHEN ZGHAAR06 U/S

GUANGZHOU CTA ZGGGAR20 Type: Control Area (Airport) Notes: EXCLUDE SECTOR ZGHAAR03

GUANGZHOU CTA ZGGGAR22 Type: Control Area (Airport) Notes: CONTACT ZGGGAR11 WHEN ZGGGAR22 U/S

HEFEI CTA ZSOFAR02 Type: Control Area (Airport) Notes: CONTACT ZSOFAR01 WHEN ZSOFAR02 U/S.

HEFEI CTA ZSOFAR03 Type: Control Area (Airport) Notes: CONTACT ZSOFAR04 WHEN ZSOFAR03 U/S.

HEFEI CTA ZSOFAR04 Type: Control Area (Airport) Notes: CONTACT ZSOFAR01 WHEN ZSOFAR04 U/S.

HEFEI CTA ZSOFAR05 Type: Control Area (Airport) Notes: CONTACT ZSOFAR04 WHEN ZSOFAR05 U/S.

NANNING CTA ZGNNAR12 Type: Control Area (Airport) Notes: CONTACT ZGNNAR10 WHEN ZGNNAR12 U/S

SHANGHAI CTA ZSSSAR41 Type: Control Area (Airport) Notes: CONTACT ZSSSAR14 WHEN ZSSSAR41 U/S.

SHANGHAI CTA ZSSSAR42 Type: Control Area (Airport) Notes: CONTACT ZSSSAR01 OR ZSSSAR44 WHEN ZSSSAR42 U/S.

SHANGHAI CTA ZSSSAR43 Type: Control Area (Airport) Notes: CONTACT ZSSSAR15 WHEN ZSSSAR43 U/S.

SHANGHAI CTA ZSSSAR44 Type: Control Area (Airport) Notes: CONTACT ZSSSAR01 WHEN ZSSSAR44 U/S.

XI'AN CTA ZLXYAR02 Type: Control Area (Airport) Notes: CONTACT ZLXYAR01 WHEN ZLXYAR02 U/S.

XI'AN CTA ZLXYAR07 Type: Control Area (Airport)

Notes: CONTACT ZLXYAR02 WHEN ZLXYAR07 U/S.

XIAMEN CTA ZSAMAR02 Type: Control Area (Airport) Notes: CONTACT ZSAMAR04 WHEN ZSAMAR02 U/S.

XIAMEN CTA ZSAMAR03 Type: Control Area (Airport) Notes: CONTACT ZSAMAR04 WHEN ZSAMAR03 U/S.

XIAMEN CTA ZSAMAR05 Type: Control Area (Airport) Notes: CONTACT ZSAMAR01 WHEN ZSAMAR05 U/S.

XIAMEN CTA ZSAMAR06 Type: Control Area (Airport) Notes: CONTACT ZSAMAR01 WHEN ZSAMAR06 U/S.

RCAA Type: FIR

Notes: TAIPEI RCTP FIR: UNLESS APPLIED IN ADVANCE WITH RELATED DOCUMENTS AND AUTHORIZED BY CAA, NO PERSON MAY OPERATE A CIVIL AIRCRAFT WHILE IN CONTROLLED AIRSPACE BELOW 10,000' FEET [MSL] AT AN INDICATED AIRSPEED OF MORE THAN 250 KNOTS. R-583 AUTHORIZED ONLY W-BND FL380 OR ABOVE WITHIN TAIPEI (RCAA) FIR. UNLESS OTHERWISE APPROVED BY ATC ARRIVAL AIRCRAFT INTO TAIPEI ARE PROHIBITED.

RJJJ Type: FIR

Notes: SPEED RESTRICTIONS WITHIN JAPAN AIRSPACE MAXIMUM IAS UNLESS OTHERWISE AUTHORIZED BY ATC. WITHIN AN APPROACH CONTROL AREA BELOW 10000' MSL 250 KIAS WITHIN A CONTROL ZONE 250 KTS PILOTS SHOULD MONITOR VHF EMERGENCY FREQUENCY 121.5 MHZ ON LONG OVERWATER ROUTES WHEN POSSIBLE. SEE VHF EMERGENCY FREQUENCY REQUIREMENT. CPDLC: CPDLC SERVICES ARE AVAILABLE WITH LOGON ADDRESS OF RJJJ IN FUKUOKA FIR CPDLC: INMARSAT: INMARSAT SECURITY NUMBER IS 443101 INMARSAT: SATCOM: SATCOM VOICE DIRECT DIAL IS 81-78-99-36-501 SATCOM:

VHHK Type: FIR

Notes: AIRCRAFT SHALL ESTABLISH TWO-WAY RADIO COMMUNICATION WITH HONG KONG RADAR WHEN SO PRESCRIBED BY THE RESPECTIVE ATC UNIT, AND MAINTAIN A LISTENING WATCH. SUCH AIRCRAFT SHALL MAKE POSITION REPORTS WHEN ENTERING AND LEAVING HONG KONG AIRSPACE, AND AT SUCH OTHER TIMES AND/OR POSITIONS AS DIRECTED BY HONG KONG ACC. PILOT SHALL REPORT THE AIRCRAFT CALL SIGN, POSITION (WITH REFERENCE TO A REPORTING POINT), LEVEL (INCLUDING PASSING AND CLEARED LEVELS IF NOT MAINTAINING THE CLEARED LEVEL), TRANSPONDER

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CODE AND OTHER PERTINENT INFORMATION (E.G. SPEED ASSIGNED BY LAST ATC, TRACKING IF IT DIFFERS FROM THE FLIGHT PLAN ROUTE) IN THE INITIAL CALL BEFORE ENTERING HONG KONG FIR. AIRCRAFT ENTERING HONG KONG FIR OUTSIDE CONTROLLED AIRSPACE, BUT WISHING TO JOIN CONTROLLED AIRSPACE, SHALL REQUEST CLEARANCE FROM HONG KONG ACC STATING FLIGHT LEVEL AND ESTIMATED TIME/POSITION OF JOINING, IN RELATION TO A REPORTING POINT. UNTIL SPECIFIC CLEARANCE IS RECEIVED FROM HONG KONG ACC, THE AIRCRAFT SHALL REMAIN CLEAR OF CONTROLLED AIRSPACE. WITHIN VHHK FIR ALL NON-COMPULSORY REPORTING POINTS ON CONVENTIONAL AND VICTOR ATS-ROUTES ARE COMPULSORY FOR NON-JET AIRCRAFT. RVSM AIRSPACE FL290-FL410 INCLUSIVE. INMARSAT: INMARSAT SECURITY NUMBER FOR HONG KONG ATC IS 441299 INMARSAT:

ZGZU Type: FIR

Notes: ABÓVE 19700' (6000M) THERE ARE FOLLOWING AIRSPACE CLASSES: 19700' (6000M)- 65700'(20000M) CLASS A AIRSPACE 65700'(20000M)-UNLTD CLASS D AIRSPACE CLASS B DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE TRANSPORT AIRPORTS. FOR TRANSPORT AIRPORTS WITH THREE RUNWAYS (INCLUSIVE) OR MORE, THREE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 10.8NM (20KM), 21.6NM (40KM), AND 32.4NM (60KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 3000' (900M) ABOVE THE AIRPORT ELEVATION, FROM 3000' (900M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 2000' (600M) ABOVE THE AIRPORT ELEVATION TO 11900' (3600M) ABOVE THE AIRPORT ELEVATION, MAXIMUM TO THE LOWER LIMIT OF CLASS A AIRSPACE. FOR TRANSPORT AIRPORTS WITH ONE RUNWAY, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 6.5NM (12KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED AS FOLLOWING: 1000' (300M) ABOVE THE AIRPORT ELEVATION, AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE AIRSPACE AIRSPACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION, AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A, B, C AND G AIRSPACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS D AND E DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A, B, C AND G AIRSPACE TO 2000' (600M) ABOVE THE AIRPORT ELEV

ZHWH Type: FIR

Notes: ABÓVE 19700' (6000M) THERE ARE FOLLOWING AIRSPACE CLASSES: 19700' (6000M)- 65700'(20000M) CLASS A AIRSPACE 65700'(2000M)-UNLTD CLASS D AIRSPACE CLASS B DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE TRANSPORT AIRPORTS. FOR TRANSPORT AIRPORTS WITH THREE RUNWAYS (INCLUSIVE) OR MORE, THREE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 10.8NM (20KM), 21.6NM (40KM), AND 32.4NM (60KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 3000' (900M) ABOVE THE AIRPORT ELEVATION, FROM 3000' (900M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO QNE 19700' (6000M). FOR TRANSPORT AIRPORTS WITH TWO RUNWAYS, TWO-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 8.1NM (15KM) AND 16.2NM (30KM), ALTITUDES RESPECTIVELY FROM RUNWAYS, TWO-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 8.1NM (15KM) AND 16.2NM (30KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 2000' (6000M) ABOVE THE AIRPORT ELEVATION, FROM 2000' (6000M) ABOVE THE AIRPORT ELEVATION TO 11900' (3600M) ABOVE THE AIRPORT ELEVATION, MAXIMUM TO THE LOWER LIMIT OF CLASS A AIRSPACE. FOR RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION, ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT SWITH OF CLASS A AIRSPACE. FOR RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE GENERAL AVIATION AIRPORTS WITH TOWER, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 6.5NM (12KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A, B, C AND G AIRSPACE, IT CAN BE DESIGNATED AS CLASS D OR E AIRSPACE CLASS D AND E DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A, B, C AND G AIRSPACE, IT CAN BE DESIGNATED AS CLASS D OR E AIRSPACE CLASS D AND C DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A DESIGNATED AS FOLLOWING: -THE AIRSPACE OUTSIDE OF CLASS B AND C AIRSPACE

ZLHW Type: FIR

Notes: ABOVE 19700' (6000M) THERE ARE FOLLOWING AIRSPACE CLASSES: 19700' (6000M)- 65700'(20000M) CLASS A AIRSPACE 65700'(20000M)-UNLTD CLASS D AIRSPACE AIRSPACE CLASS B DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE TRANSPORT AIRPORTS. FOR TRANSPORT AIRPORTS WITH THREE RUNWAYS (INCLUSIVE) OR MORE, THREE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 10.8NM (20KM), 21.6NM (40KM), AND 32.4NM (60KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 3000' (900M) ABOVE THE AIRPORT ELEVATION, FROM 3000' (900M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO QNE 19700' (6000M). FOR TRANSPORT AIRPORTS WITH TWO RUNWAYS, TWO-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 8.1NM (15KM) AND 16.2NM (30KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION, FROM 2000' (600M) ABOVE THE AIRPORT ELEVATION TO 11900' (3600M) ABOVE THE AIRPORT ELEVATION, MAXIMUM TO THE LOWER LIMIT OF CLASS A AIRSPACE. FOR TRANSPORT AIRPORTS WITH ONE RUNWAY, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 6.5NM (12KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE GENERAL AVIATION AIRPORTS WITH TOWER, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 2.7NM (5KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS D AND E DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A, B, C AND G AIRSPACE, IT CAN BE DESIGNATED AS CLASS D OR E AIRSPACE BASED ON OPERATION AND SAFETY REQUIREMENTS. AIRSPACE CLASS G DESIGNATED AS FOLLOWING: - THE AIRSPACE OUTSIDE OF CLASS B AND C AIRSPACE(CLASS W AIRSPACE EXCLUDED) AND BELOW 1000' (300M) AGL - AIRSPACE BELOW 19700' (6000M) MSL THAT DOES NOT AFFECT CIVIL AVIATION TRANSPORT FLIGHTS. AIRSPACE CLASS W DESIGNATED AS FOLLOWING: PART OF THE CLASS G AIRSPACE BELOW 400' (120M) AGL. CPDLC: CPDLC SERVICES ARE AVAILABLE WITH LOGON ADDRESS OF ZLLL IN LANZHOU FIR. LOGON SHOULD BE ESTABLISHED 15 MINUTES PRIOR TO ENTERING THE DATA LINK AIRSPACE. CPDLC IS AVAILABLE FOR AWYS L888, Y1 AND Y2 CPDLC: INMARSAT: INMARSAT SECURITY NUMBER FOR LANZHOU ACC IS 441205 OR 4

ZSHA Type: FIR

Notes: RVSM AIRSPACE FL291-FL411 INCLUSIVE. ALL AIRCRAFT ENTERING OR EXITING PR OF CHINA SHALL CONTACT ATC 15-20 MINUTES PRIOR TO FIR ENTRY OR EXIT AND OBTAIN A CLEARANCE TO CROSS THE FIR BOUNDARIES. ABOVE 19700' (6000M) THERE ARE FOLLOWING AIRSPACE CLASSES: 19700' (6000M)-65700'(20000M) CLASS A AIRSPACE 65700'(20000M)-UNLTD CLASS D AIRSPACE AIRSPACE CLASS B DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE TRANSPORT AIRPORTS. FOR



TRANSPORT AIRPORTS WITH THREE RUNWAYS (INCLUSIVE) OR MORE, THREE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 10.8NM (20KM), 21.6NM (40KM), AND 32.4NM (60KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 3000' (900M) ABOVE THE AIRPORT ELEVATION, FROM 3000' (900M) ABOVE THE AIRPORT ELEVATION TO 6000' (1800M) ABOVE THE AIRPORT ELEVATION, FROM 6000' (1800M) ABOVE THE AIRPORT ELEVATION TO QNE 19700' (6000M). FOR TRANSPORT AIRPORTS WITH TWO RUNWAYS, TWO-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 8.1NM (15KM) AND 16.2NM (30KM), ALTITUDES RESPECTIVELY FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION, FROM 2000' (600M) ABOVE THE AIRPORT ELEVATION TO 11900' (3600M) ABOVE THE AIRPORT ELEVATION, MAXIMUM TO THE LOWER LIMIT OF CLASS A AIRSPACE. FOR TRANSPORT AIRPORTS WITH ONE RUNWAY, ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 6.5NM (12KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS C DESIGNATED AS FOLLOWING: THE AIRSPACE DESIGNATED ABOVE GENERAL AVIATION AIRPORTS WITH TOWER. ONE-TIERED STRUCTURE IS USUALLY ESTABLISHED WITH RADIUS OF 2.7NM (5KM), ALTITUDE FROM RUNWAY SURFACE TO 2000' (600M) ABOVE THE AIRPORT ELEVATION. AIRSPACE CLASS D AND E DESIGNATED AS FOLLOWING: OUTSIDE OF CLASS A, B, C AND G AIRSPACE, IT CAN BE DESIGNATED AS CLASS D OR E AIRSPACE BASED ON OPERATION AND SAFETY REQUIREMENTS. AIRSPACE CLASS G DESIGNATED AS FOLLOWING: - THE AIRSPACE OUTSIDE OF CLASS B AND C AIRSPACE(CLASS W AIRSPACE EXCLUDED) AND BELOW 1000' (300M) AGL - AIRSPACE BELOW 19700' (6000M) MSL THAT DOES NOT AFFECT CIVIL AVIATION TRANSPORT FLIGHTS. AIRSPACE CLASS W DESIGNATED AS FOLLOWING: PART OF THE CLASS G AIRSPACE BELOW 400' (120M) AGL.

16 Type: Special Use Airspace

Notes: NO FLIGHT IS PERMITTED BELOW 4000 FEET IN R16 UNLESS PERMISSION FROM AOC HAS BEEN OBTAINED. HELICOPTERS ON MEDICAL SERVICES MAY OPERATE IN THIS AREA WITH PERMISSION FROM SUNGSHAN TOWER. IFR AIRCRAFT APPROACHING TAIPEI/SUNGSHAN AIRPORT ARE RESTRICTED TO AN ALTITUDE WHILE CROSSING (APU) VOR AND (LK) LOCATOR NOT LOWER THAN 5000 FEET.

30 Type: Special Use Airspace

Notes: IF PRIOR COORDINATION WITH TAFU PROVING GROUND HAS BEEN COMPLETED, CIVIL AIRCRAFT OPERATIONS IN R30 MAY BE APPROVED BY ATC DURING ACTIVE HOURS.

41 Type: Special Use Airspace

Notes: TAITUNG TMA EXCLUDES RC(R)-41 AND RC(R)-42.

48 Type: Special Use Airspace

Notes: NO AIRCRAFT MAY ENTER THIS AREA WITHOUT PRIOR PERMISSION FROM APPROPRIATE AUTHORITY.

BEIDOU EA* Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

BULAO HOT* Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

DAHAN RIV* Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

DALI Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL. FOR ENTERING AND EXITING AREA B. OTHER ACT PROHIBITED.

GAOSHU Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

HUALIEN M* Type: Special Use Airspace

Notes: FOR ENTERING AND EXITING ULM HUATUNG AIRSPACE. OTHER ACT PROHIBITED.

HUATUNG Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 1000 FT AGL.

JeppView for Windows

IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 1000 FT AGL.

LUODONG Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

MAOLUO RI* Type: Special Use Airspace

Notes: FOR ENTERING AND EXITING BEIDOU EAST. OTHER ACT PROHIBITED. IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL. FOR ENTERING AND EXITING BEIDOU EAST. OTHER ACT PROHIBITED.

MIAOLI Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

NANHUA Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

NINGBO Type: Special Use Airspace

Notes: 9900' (3000M) QNH OR BELOW: BY ATC

RUEIFANG Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

SAIJIA Type: Special Use Airspace

Notes: IN THOSE PARTS WITH HIGH TERRAIN, THE UPPER LIMIT IS 500 FT AGL.

SOUTH LAN* Type: Special Use Airspace

Notes: FOR LANDING ONLY

CHANGSHA APP CTL ZGHAAP02 Type: Terminal Area

Notes: CONTACT ZGHAAP01 WHEN ZGHAAP02 U/S

CHANGSHA APP CTL ZGHAAP03N Type: Terminal Area

Notes: CONTACT ZGHAAP01 WHEN ZGHAAP03 U/S RWY36L/36R IN USE AT ZGHA

CHANGSHA APP CTL ZGHAAP03S Type: Terminal Area

Notes: RWY18L/18R IN USE AT ZGHA CONTACT ZGHAAP01 WHEN ZGHAAP03 U/S

FUZHOU APP CTL AREA AP03 Type: Terminal Area

Notes: CONTACT ZSFZAP01 WHEN ZSFZAP03 U/S

GUANGZHOU APP CTL ZGGGAP01N Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP01S Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP02N Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP02S Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP03N1 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG EXCLUDE ZGGGAP02

GUANGZHOU APP CTL ZGGGAP03N2 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG EXCLUDE ZGGGAP02

GUANGZHOU APP CTL ZGGGAP03N3 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG EXCLUDE ZGGGAP02

GUANGZHOU APP CTL ZGGGAP03N4 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

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GUANGZHOU APP CTL ZGGGAP03N5 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP03N6 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP03S1 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG EXCLUDE ZGGGAP01 AND ZGGGAP06

GUANGZHOU APP CTL ZGGGAP03S2 Type: Terminal Area Notes: EXCLUDE ZGGGAP01 AND ZGGGAP06 RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP03S3 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG EXCLUDE ZGGGAP01 AND ZGGG06

GUANGZHOU APP CTL ZGGGAP03S4 Type: Terminal Area Notes: EXCLUDE ZGGGAP02 RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP03S5 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP03S6 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP03S7 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP04N1 Type: Terminal Area Notes: EXCLUDE ZHUHAI TMA RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP04N2 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP04S1 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG EXCLUDE ZHUHAI TMA

GUANGZHOU APP CTL ZGGGAP04S2 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP05N1 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP05N2 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP05N3 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG EXCLUDE ZGGGAP01, ZGGGAP04, ZGGGAP06 AND ZHUHAI TMA

GUANGZHOU APP CTL ZGGGAP05N4 Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP05S1 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP05S2 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP05S3 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP05S4 Type: Terminal Area Notes: EXCLUDE ZGGGAP04 AND ZHUHAI TMA RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP05S5 Type: Terminal Area Notes: RWY19/20L/20R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP06N Type: Terminal Area Notes: RWY01/02L/02R IN USE AT ZGGG

GUANGZHOU APP CTL ZGGGAP06S Type: Terminal Area

Notes: RWY19/20L/20R IN USE AT ZGGG

HANGZHOU APP CTL ZSHCAP01 Type: Terminal Area Notes: CONTACT ZSHCAP04 WHEN ZSHCAP01 U/S EXCLUDE ZSHCAP02/04

HANGZHOU APP CTL ZSHCAP02 Type: Terminal Area Notes: CONTACT ZSHCAP04 WHEN ZSHCAP02 U/S

HANGZHOU APP CTL ZSHCAP03 Type: Terminal Area Notes: EXCLUDE ZSHCAP02/06/07

HANGZHOU APP CTL ZSHCAP04 Type: Terminal Area Notes: CONTACT ZSHCAP03 WHEN ZSHCAP04 U/S

HANGZHOU APP CTL ZSHCAP05 Type: Terminal Area Notes: CONTACT ZSHCAP03 WHEN ZSHCAP05 U/S EXCLUDE ZSHCAP06/08 AND NINGBO APP

HANGZHOU APP CTL ZSHCAP06 Type: Terminal Area

Notes: CONTACT ZSHCAP02 WHEN ZSHCAP006 U/S

HANGZHOU APP CTL ZSHCAP07 Type: Terminal Area

Notes: CONTACT ZSHCAP03 WHEN ZSHCAP07 U/S

HANGZHOU APP CTL ZSHCAP08 Type: Terminal Area

Notes: CONTACT ZSHCAP04 WHEN ZSHCAP08 U/S

HEFEI APP CTL AREA ZSOFAP02 Type: Terminal Area Notes: CONTACT ZSOFAP03 WHEN ZSOFAP02 U/S

CONTACT ZSOFAP03 WHEN ZSOFAP02 U/S

HEFEI APP CTL AREA ZSOFAP03 Type: Terminal Area Notes: CONTACT ZSOFAP01 WHEN ZSOFAP03 U/S

CONTACT ZSOFAP01 WHEN ZSOFAP03 U/S

HEFEI APP CTL AREA ZSOFAP04 Type: Terminal Area Notes: CONTACT ZSOFAP03 WHEN ZSOFAP04 U/S.

CONTACT ZSOFAP03 WHEN ZSOFAP04 U/S.

JINJIANG APP CONTROL AREA Type: Terminal Area Notes: CONTACT JINJIANG TWR WHEN JINJIANG APP U/S.

NANJING APP CTL AREA ZSNJ AP04 Type: Terminal Area Notes: CONTACT ZSNJAP01 WHEN ZSNJAP04 U/S

CONTACT ZSNJAP01 WHEN ZSNJAP04 U/S

NINGBO APP CTL ZSNBAP01N Type: Terminal Area Notes: RWY31 IN USE AT ZSNB

NINGBO APP CTL ZSNBAP01S Type: Terminal Area Notes: RWY13 IN USE AT ZSNB

NINGBO APP CTL ZSNBAP02N Type: Terminal Area Notes: RWY31 IN USE AT ZSNB

NINGBO APP CTL ZSNBAP02S Type: Terminal Area Notes: RWY13 IN USE AT ZSNB

SHANGHAI APP CTL ZSSSAP01 Type: Terminal Area Notes: EXCLUDE ZSSSAP05/07

SHANGHAI APP CTL ZSSSAP02N Type: Terminal Area Notes: RWY34L/34R/35L/35R IN USE AT ZSPD SHANGHAI APP CTL ZSSSAP02S Type: Terminal Area Notes: RWY16L/16R/17L/17R IN USE AT ZSPD

SHANGHAI APP CTL ZSSSAP03 Type: Terminal Area Notes: EXCLUDE ZSSSAP02/04/06/07

SHANGHAI APP CTL ZSSSAP04N Type: Terminal Area Notes: RWY34L/34R/35L/35R IN USE AT ZSPD

SHANGHAI APP CTL ZSSSAP04S Type: Terminal Area Notes: RWY16L/16R/17L/17R IN USE AT ZSPD

SHANGHAI APP CTL ZSSSAP06N Type: Terminal Area Notes: RWY34L/34R/35L/35R IN USE AT ZSPD

SHANGHAI APP CTL ZSSSAP06S Type: Terminal Area Notes: RWY16L/16R/17L/17R IN USE AT ZSPD

SHANGHAI APP CTL ZSSSAP08 Type: Terminal Area Notes: EXCLUDE ZSSSAP02/04/06

SHANGHAI APP CTL ZSSSAP09 Type: Terminal Area Notes: EXCLUDE NANTONG TWR AND WUXI APP

SHANGHAI APP CTL ZSSSAP10 Type: Terminal Area Notes: EXCLUDE ZSSSAP02/04/06

SHANGHAI APP CTL ZSSSAP11 Type: Terminal Area Notes: EXCLUDE WUXI APP

TAITUNG TMA Type: Terminal Area Notes: EXCLUDING RC(R)-41

WENZHOU APP CTL AREA ZSWZAP01 Type: Terminal Area Notes: EXCLUDE ZSWZAP02

WENZHOU APP CTL AREA ZSWZAP03 Type: Terminal Area Notes: CONTACT ZSWZAP01 WHEN ZSWZAP03 U/S

WUHAN APP CTL ZHHH AP01 Type: Terminal Area Notes: EXCLUDE ZHHHAP03 CONTACT ZHHHAP02 WHEN ZHHHAP01 U/S

WUHAN APP CTL ZHHH AP02 Type: Terminal Area Notes: EXCLUDE ZHHHAP03

WUHAN APP CTL ZHHH AP03 Type: Terminal Area Notes: CONTACT ZHHHAP01 WHEN ZHHHAP03 U/S RWY04L/04R IN USE AT ZHHH

CONTACT ZHHHAP02 WHEN ZHHHAP03 U/S RWY22L/22R IN USE AT ZHHH

WUHAN APP CTL ZHHH AP04 Type: Terminal Area Notes: CONTACT ZHHHAP02 WHEN ZHHHAP04 U/S EXCLUDE ZHHHAP03

WUXI APPROACH CONTROL AREA Type: Terminal Area

Notes: CONTACT WUXI TOWER WHEN WUXI APP U/S

XIAMEN APP CTL AREA ZSAMAP01 Type: Terminal Area Notes: EXCLUDE JINJIANG APP CONTROL AREA

ZHUHAI TMA ZGJDTM01N1 Type: Terminal Area Notes: CONTACT APP04 WHEN APP01 U/S RWY33/34 IN USE AT ZGSZ

ZHUHAI TMA ZGJDTM01N2 Type: Terminal Area Notes: CONTACT APP04 WHEN APP01 U/S RWY33/34 IN USE AT ZGSZ

ZHUHAI TMA ZGJDTM01S1 Type: Terminal Area

Notes: RWY15/16 IN USE AT ZGSZ CONTACT APP04 WHEN APP01 U/S

ZHUHAI TMA ZGJDTM01S2 Type: Terminal Area

Notes: CONTACT APP04 WHEN APP01 U/S RWY15/16 IN USE AT ZGSZ

ZHUHAI TMA ZGJDTM03N1 Type: Terminal Area Notes: CONTACT APP02 WHEN APP03 U/S RWY33/34 IN USE AT ZGSZ

ZHUHAI TMA ZGJDTM03N2 Type: Terminal Area

Notes: RWY33/34 IN USE AT ZGSZ CONTACT APP02 WHEN APP03 U/S

ZHUHAI TMA ZGJDTM03S Type: Terminal Area

Notes: RWY15/16 IN USE AT ZGSZ CONTACT APP02 WHEN APP03 U/S

ZHUHAI TMA ZGJDTM04N1 Type: Terminal Area

Notes: RWY33/34 IN USE AT ZGSZ CONTACT APP02 WHEN APP04 U/S

ZHUHAI TMA ZGJDTM04N2 Type: Terminal Area Notes: RWY33/34 IN USE AT ZGSZ CONTACT APP02 WHEN APP04 U/S

ZHUHAI TMA ZGJDTM04S1 Type: Terminal Area

Notes: RWY15/16 IN USE AT ZGSZ

ZHUHAI TMA ZGJDTM04S2 Type: Terminal Area

Notes: RWY15/16 IN USE AT ZGSZ CONTACT APP02 WHEN APP04 U/S

ZHUHAI TMA ZGJDTM05N Type: Terminal Area

Notes: RWY33/34 IN USE AT ZGSZ CONTACT APP03 WHEN APP05 U/S

ZHUHAI TMA ZGJDTM05S Type: Terminal Area

Notes: CONTACT APP03 WHEN APP05 U/S RWY15/16 IN USE AT ZGSZ

LIG Type: VOR

Notes: TRAFFIC TO HONG KONG OR BEYOND REPORT ETO TAMOT OR SIERA INT TO GUANGZHOU ATC.

PLT Type: VOR

Notes: TRAFFIC TO HONG KONG OR BEYOND REPORT ETO TAMOT OR SIERA INT TO GUANGZHOU ATC.

BEKOL Type: Waypoint

Notes: CONTACT NEXT ATC UNIT AT LEAST 3 MINUTES PRIOR TO BEKOL.

DOTMI Type: Waypoint

Notes: CONTACT HONG KONG RADAR ON 121.300 AT LEAST 10NM PRIOR TO DOTMI.

ELAGO Type: Waypoint

Notes: AIRCRAFT FROM ZSHC IN DIRECTION OF ZSQD OR RJTG FIR AND VICE VERSA ROUTE W36 AND CROSS ELAGO AT FL197/FL6000M OR ABOVE. EXPECT REROUTING VIA W-37 BY ATC.

ELATO Type: Waypoint

Notes: CONTACT HONG KONG RADAR ON 121.300 AT LEAST 10NM PRIOR TO ELATO.

LELIM Type: Waypoint

Notes: CONTACT HONG KONG RADAR ON 121.300 AT LEAST 10NM PRIOR TO LELIM.

ROMEO Type: Waypoint

Notes: CONTACT HONG KONG RADAR ON 123.950 AT LEAST 3 MINUTES PRIOR TO ROMEO.

SIERA Type: Waypoint

Notes: CONTACT HONG KONG RADAR ON 127.550 AT LEAST 3 MINUTES PRIOR TO SIERA.

TAMOT Type: Waypoint

Notes: CONTACT HONG KONG RADAR ON 127.100 AT LEAST 10 NM PRIOR TO TAMOT.

Regional Notes

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VLVT Type: FIR

REGIONAL COMMUNICATIONS Flights to or from Vientiane crossing Thailand Territory must submit flight plan 24 hours in advance.

ZGZU Type: FIR

ALTIMETER SETTING Use QNH (where transition altitude established) for Take-off and climb until passing transition altitude. Use QFE (where transition height established) for Take-off and climb until passing transition height. Use QFE (where no transition altitude or transition height established) for Take-off and climb until passing 600m/1970'. Descent and landing as soon as passing transition level where established or after crossing ACA boundary or as instructed by ATC.

CRUISING LEVEL PROCEDURES

CRUISING LEVELS CHINA ATC will issue the Flight Level clearance in meters. Pilots shall use the PR of China RVSM FLAS Diagram to determine the corresponding Flight Level in feet. The aircraft shall be flown using the Flight Level in FEET. Pilots should be aware that due to the rounding differences, the metric readout of the onboard avionics will not necessarily correspond to the cleared Flight Level in meters however the difference will never be more than 30 meters

ZJSA Type: FIR

ALTIMETER SETTING Use QNH (where transition altitude established) for Take-off and climb until passing transition altitude. Use QFE (where transition height established) for Take-off and climb until passing transition height. Use QFE (where no transition altitude or transition height established) for Take-off and climb until passing 600m/1970'. Descent and landing as soon as passing transition level where established or after crossing ACA boundary or as instructed by ATC.

CRUISING LEVEL PROCEDURES

CRUISING LEVELS CHINA ATC will issue the Flight Level clearance in meters. Pilots shall use the PR of China RVSM FLAS Diagram to determine the corresponding Flight Level in feet. The aircraft shall be flown using the Flight Level in FEET. Pilots should be aware that due to the rounding differences, the metric readout of the onboard avionics will not necessarily correspond to the cleared Flight Level in meters however the difference will never be more than 30 meters.

ZPKM Type: FIR

ALTIMETER SETTING Use QNH (where transition altitude established) for Take-off and climb until passing transition altitude. Use QFE (where transition height established) for Take-off and climb until passing transition height. Use QFE (where no transition altitude or transition height established) for Take-off and climb until passing 600m/1970'. Descent and landing as soon as passing transition level where established or after crossing ACA boundary or as instructed by ATC.

CRUISING LEVEL PROCEDURES

CRUISING LEVELS CHINA ATC will issue the Flight Level clearance in meters. Pilots shall use the PR of China RVSM FLAS Diagram to determine the corresponding Flight Level in feet. The aircraft shall be flown using the Flight Level in FEET. Pilots should be aware that due to the rounding differences, the metric readout of the onboard avionics will not necessarily correspond to the cleared Flight Level in meters however the difference will never be more than 30 meters.

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RJJJ Type: FIR JDA AREAS, JDA CORRIDORS, AND JAPAN TRAINING AND TESTING AREAS

JDA AREAS Aircraft flying for purposes other than training/testing should not enter this airspace without prior coordination with Controlling Unit. Aircraft entering airspace inevitably for emergencies or avoidance of thunderclouds etc., should make a report to Controlling Unit on 121.5 MHz or 243.0 MHz (emergencies) or on the published frequency of the Controlling Unit (all other situations).

JDA CORRIDORS Aircraft should not penetrate corridors without permission by ACC controlling corridors.

JAPAN TRAINING AND TESTING AREAS EXCLUDES: Airways, ATS routes, SIDs, STARs, instrument approach routes, radar vectoring routes and holding areas and their protective airspace.

ZGZU Type: FIR

ALTIMETER SETTING Use QNH (where transition altitude established) for Take-off and climb until passing transition altitude. Use QFE (where transition height established) for Take-off and climb until passing transition height. Use QFE (where no transition altitude or transition height established) for Take-off and climb until passing 600m/1970'. Descent and landing as soon as passing transition level where established or after crossing ACA boundary or as instructed by ATC.

CRUISING LEVEL PROCEDURES

CRUISING LEVELS CHINA ATC will issue the Flight Level clearance in meters. Pilots shall use the PR of China RVSM FLAS Diagram to determine the corresponding Flight Level in feet. The aircraft shall be flown using the Flight Level in FEET. Pilots should be aware that due to the rounding differences, the metric readout of the onboard avionics will not necessarily correspond to the cleared Flight Level in meters however the difference will never be more than 30 meters.



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Reference Notes

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VLVT Type: FIR MACH NUMBER TECHNIQUE For information about routes and/or areas affected, see Air Traffic Control Tab.

ATS ROUTE RESTRICTION NOTES ATS Route Restriction Notes for information regarding flight planning purposes see Enroute Tab.

CRUISING LEVELS Cruising levels for flight level transition procedures refer to ENROUTE CH-201 and consecutive pages.

CRUISING LEVEL PROCEDURES CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

RVSM PROCEDURES REDUCED VERTICAL SEPARATION MINIMUMS (RVSM) For procedures and equipment requirements see Air Traffic Control Tab.

REQUIRED NAVIGATION PERFORMANCE (RNP) For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

VTBB Type: FIR

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR) For Beacon Code procedures see Enroute Tab.

ADIZ REQUIREMENTS FOR ADIZ REQUIREMENTS See Enroute Tab.

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ATS ROUTE RESTRICTION NOTES ATS Route Restriction Notes for information regarding flight planning purposes see Enroute Tab.

MACH NUMBER TECHNIQUE For information about routes and/or areas affected, see Air Traffic Control Tab.

RVSM PROCEDURES REDUCED VERTICAL SEPARATION MINIMUMS (RVSM) For procedures and equipment requirements see Air Traffic Control Tab.

REQUIRED NAVIGATION PERFORMANCE (RNP) For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

VVHM Type: FIR TRANSPONDER SETTING (Secondary Surveillance Radar-SSR) For Beacon Code procedures see Enroute Tab.

ATS ROUTE RESTRICTION NOTES ATS Route Restriction Notes for information regarding flight planning purposes see Enroute Tab.

MACH NUMBER TECHNIQUE For information about routes and/or areas affected, see Air Traffic Control Tab.

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (RVSM) For procedures and equipment requirements see Air Traffic Control Tab.

REQUIRED NAVIGATION PERFORMANCE (RNP) For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

VVHN Type: FIR CRUISING LEVEL PROCEDURES

CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

ATS ROUTE RESTRICTION NOTES ATS Route Restriction Notes for information regarding flight planning purposes see Enroute Tab.

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CRUISING LEVELS

Cruising levels for flight level transition procedures refer to ENROUTE CH-201 and consecutive pages.

MACH NUMBER TECHNIQUE For information about routes and/or areas affected, see Air Traffic Control Tab.

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (RVSM) For procedures and equipment requirements see Air Traffic Control Tab.

REQUIRED NAVIGATION PERFORMANCE (RNP)

For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

VYYF Type: FIR RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (RVSM) For procedures and equipment requirements see Air Traffic Control Tab.

REQUIRED NAVIGATION PERFORMANCE (RNP) For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

MACH NUMBER TECHNIQUE For information about routes and/or areas affected, see Air Traffic Control Tab.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR) For Beacon Code procedures see Enroute Tab.

ADIZ REQUIREMENTS FOR ADIZ REQUIREMENTS See Enroute Tab.

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

MACH NUMBER TECHNIQUE: For information about routes and/or areas affected, see AIR TRAFFIC CONTROL section.

ADIZ REQUIREMENTS MYANMAR ADIZ REQUIREMENTS see Enroute section.

CRUISING LEVEL PROCEDURES CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

ATS ROUTE RESTRICTION NOTES

ATS Route Restriction Notes for information regarding flight planning purposes see Enroute Tab.

CRUISING LEVELS Cruising levels for flight level transition procedures refer to ENROUTE CH-201 and consecutive pages.

ZGZU Type: FIR

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR): For Beacon Code procedures see ENROUTE section.

CRUISING LEVEL PROCEDURES CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

REQUIRED NAVIGATION PERFORMANCE (RNP)

For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

RVSM PROCEDURES REDUCED VERTICAL SEPARATION MINIMUMS (FL290 - FL410) For RVSM procedures and equipment requirements see AIR TRAFFIC CONTROL pages series.

ZJSA Type: FIR

CRUISING LEVEL PROCEDURES CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (FL290 - FL410) For RVSM procedures and equipment requirements see AIR TRAFFIC CONTROL pages series.

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR): For Beacon Code procedures see ENROUTE section.

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ZPKM Type: FIR

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR): For Beacon Code procedures see ENROUTE section.

CRUISING LEVEL PROCEDURES CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

ATS ROUTE RESTRICTION NOTES

ATS Route Restriction Notes for information regarding flight planning purposes see Enroute Tab.

CRUISING LEVELS Cruising levels for flight level transition procedures refer to ENROUTE CH-201 and consecutive pages.

MACH NUMBER TECHNIQUE For information about routes and/or areas affected, see Air Traffic Control Tab.

RVSM PROCEDURES REDUCED VERTICAL SEPARATION MINIMUMS (RVSM) For procedures and equipment requirements see Air Traffic Control Tab.

REQUIRED NAVIGATION PERFORMANCE (RNP)

For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (FL290 - FL410) For RVSM procedures and equipment requirements see AIR TRAFFIC CONTROL pages series.

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RCAA Type: FIR

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR) For Beacon Code procedures see Enroute Tab.

ADIZ REQUIREMENTS FOR ADIZ REQUIREMENTS See Enroute Tab.

CRUISING LEVEL PROCEDURES CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

REQUIRED NAVIGATION PERFORMANCE (RNP) For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

RJJJ Type: FIR

NORTH PACIFIC (NOPAC) ROUTE PROCEDURES

a. The NOPAC Route System is comprised of five Air Traffic Service (ATS) routes which transit the North Pacific between Alaska and Japan. The two northern routes are used for westbound traffic. The three southern routes are used for eastbound traffic, except that R-591 or G-344 may be used for westbound aircraft crossing the Fukuoka/Anchorage FIR between 0000UTC and 0600UTC. The routes are as follows: R-220, R-580, A-590, R-591 and G-344.

b. Transition Routes

1. Within the Fukuoka FIR, Oceanic Transition Routes (OTRs) and, in one case, a Victor route, have been established for aircraft transitioning to or from the NOPAC Route System.

2. Within the Anchorage FIR, certain ATS routes are used for the same purpose. They are as follows: B-327 (For Westbound use only between BAMOK and SELDM), R-341, G-469, A-342, G-215, R-330, R-451, R-336, R-338, G-583 and G-349.

c. Separation Standards

1. The primary form of lateral separation within the NOPAC Route System is 25NM lateral either side of the centerline, based on Required Navigation Performance 10 (RNP-10) and 1000' vertical separation (FL290 - FL410) based on Reduced Vertical Separation Minimums (RVSM).

2. Lateral separation for Non-RNP10 aircraft and aircraft operating below FL180 is 50NM lateral either side of the centerline.

3. Standard longitudinal separation within the Anchorage Oceanic FIR is 15 minutes "in trail".

d. Flight Plans



- 1. Aircraft shall enter "R" in item 10 of the ICAO flight plan if the aircraft and operator have been approved for RNP 10 operations for the route of flight.
- 2. Aircraft shall enter "W" in item 10 of the ICAO flight plan if the aircraft and operator have been approved for RVSM.
- 3. Aircraft not approved for RNP 10 and/or RVSM shall not enter "R" and/or "W" in item 10.
- 4. Aircraft approved for both RNP 10 and RVSM may flight plan any of the NOPAC routes with the following altitude restrictions:
 - (a) R-220: Even Altitudes FL180 to FL400, also FL330, FL350, FL370, FL390, FL410
 - (b) R-580: Even Altitudes FL180 to FL400, also FL350, FL370
 - (c) A-590: Odd Altitudes FL190 to FL410, also FL300, FL320, FL340
 - (d) R-591: Eastbound, Odd Altitudes FL190 to FL410
 - (e) R-591: Westbound, Even Altitudes FL300 to FL400
 - (f) G-344: Eastbound, Odd Altitudes FL190 to FL410
 - (g) G-344: Westbound, Even Altitudes FL300 to FL400

(h) R-591 and G-344 are Eastbound routes unless designated as Westbound PACOTS. Traffic flows are either Eastbound or Westbound with the tracks being emptied of traffic before changing direction.

- 5. Non-RNP-10 aircraft shall flight plan as follows:
 - (a) Westbound: R-220 at all times.
 - (b) Eastbound: A-590 at all times.
 - (c) Eastbound: G-344 when available for eastbound flights.
 - (d) The altitudes available on these routes are at or below FL280 and at or above FL430.

e. Procedures

- 1. Peak traffic periods:
 - (a) Eastbound 0700UTC to 2100UTC
 - (b) Westbound 1200UTC to 1900UTC and 2200UTC to 0800UTC

(c) Due to traffic volume, flights desiring to operate contrary to the predominant traffic flow can expect to be rerouted or assigned less than optimum flight levels. If feasible, users planning to operate in the NOPAC Route System at airspeeds below MACH 0.78 should use other than the peak hours for their flights. This will reduce congestion and expedite traffic.

f. Aircraft cannot always be accommodated on their flight planned NOPAC route. In an effort to reduce coordination time and errors between ATC and flight crews, JCAB (Fukuoka ATMC) and FAA (Anchorage ARTCC) have agreed on a common procedure to accommodate most reroutes. Aircraft rerouted from one NOPAC ATC route to another NOPAC ATC route will be given short range clearances into the adjoining FIR's RADAR coverage airspace. The receiving ATC facility will then issue further routing to the aircraft prior to the aircraft reaching the clearance limit.

1. Example 1: aircraft ABC101 is routed via R-220 to RJTT but can not be accommodated on R-220. The aircraft may be re-cleared as follows: "ABC101 cleared to OATIS via R-580, expect further clearance from ATMC after OMOTO."

2. Example 2: aircraft ABC102 is routed via A-590 to PAFA but can not be accommodated on A-590. The aircraft may be re-cleared as follows: "ABC102 cleared to SYA via R-591, expect further routing from Anchorage ARTCC after AKISU."

CRUISING LEVEL PROCEDURES

CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

FLIGHT PLANNING AND OVERFLIGHT ROUTES within the Pacific region: For complete Information see Enroute Tab.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR) For Beacon Code procedures see Enroute Tab.

ADIZ REQUIREMENTS FOR ADIZ REQUIREMENTS See Enroute Tab.

TRANSPONDER REQUIRED

Transponder (Mode A/3 & Mode C) required in Approach Control Area and Control Zones.

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REQUIRED NAVIGATION PERFORMANCE (RNP)

For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

FLIGHT PROCEDURES Okinawa Approach Control provides full time Stage III Service (RADAR sequencing and separation service for VFR aircraft) within the Okinawa TCA. No aircraft may operate within the TCA unless appropriate authorization is received from TAC prior to the operation. a. VFR aircraft enroute to destination airports within the Okinawa TCA, should contact Okinawa Approach Control 50NM from the Kadena VORTAC.

- 1. Aircraft operating southeast of Kadena 050/230 radials use 258.3/126.5 MHz.
- 2. Aircraft operating northwest of Kadena 230/050 radials use 335.8/119.1 MHz.
- 3. Monitor ATIS broadcasts of destination airport prior to contacting Approach Control and advise ATIS code received on initial contact.

b. VFR aircraft departing Kadena AB will advise Ground Control prior to taxi, of intended direction of flight and proposed altitude to depart the TCA. VFR aircraft departing other airports that desire ATC service, will advise the appropriate tower prior to departure. The tower will then advise when to contact Departure Control and assign a frequency and beacon code.

- c. The procedures used in this program are not to be interpreted as relieving pilots of their responsibilities to:
 - 1. See, and avoid other traffic operating in VFR conditions,
 - 2. Maintain appropriate terrain and obstruction clearance,
 - 3. Remain in weather conditions equal to, or better than, the minimum required by pertinent regulations, and
 - 4. Whenever compliance with an assigned route or heading is likely to compromise any of the above, Okinawa Approach Control shall be so advised.
- d. Except in the case of inflight failure, no person may operate an aircraft within the TCA unless equipped with the following:
 - 1. VOR or TACAN receiver (except helicopters),
 - 2. Two-way radio capable of communicating with ATC on the appropriate frequencies for the TCA, or
 - 3. Coded RADAR Beacon Transponder having at least a Mode A/3 & Mode C, 64 code capability, replying to A/3 interrogation with the code specified by ATC.

VHHK Type: FIR

FLIGHT PLANNING AND OVERFLIGHT ROUTES within the Pacific region: For complete Information see Enroute Tab.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR) For Beacon Code procedures see Enroute Tab.

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

FLIGHT PLANNING AND OVERFLIGHT ROUTES within the Pacific region: For complete information see Enroute section.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR): For Beacon Code procedures see ENROUTE section.

VHHK Transition Routes

For complete information of Terminal Transition Routes within VHHK FIR see VHHH Terminal charts.

REQUIRED NAVIGATION PERFORMANCE (RNP)

For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (FL290 - FL410) For RVSM procedures and equipment requirements see AIR TRAFFIC CONTROL pages series.

ATS ROUTE RESTRICTION NOTES

ATS ROUTE RESTRICTIONS For information regarding flight planning purposes refer to Enroute EE-101 and consecutive pages.

ZGZU Type: FIR

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (FL290 - FL410) For RVSM procedures and equipment requirements see AIR TRAFFIC CONTROL pages series.

REQUIRED NAVIGATION PERFORMANCE (RNP) For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

CRUISING LEVEL PROCEDURES CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR): For Beacon Code procedures see ENROUTE section.

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

ZHWH Type: FIR

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR): For Beacon Code procedures see ENROUTE section.

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (FL290 - FL410) For RVSM procedures and equipment requirements see AIR TRAFFIC CONTROL pages series.

ZLHW Type: FIR

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR): For Beacon Code procedures see ENROUTE section.

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (FL290 - FL410) For RVSM procedures and equipment requirements see AIR TRAFFIC CONTROL pages series.

CRUISING LEVEL PROCEDURES

CRUISING LEVELS: For Flight Level Transition Procedures refer to Enroute section.

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CRUISING LEVELS

Cruising levels for flight level transition procedures refer to ENROUTE CH-201 and consecutive pages.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR) For Beacon Code procedures see Enroute Tab.

ZSHA Type: FIR

ATS ROUTE RESTRICTIONS: For information regarding flight planning purposes refer to Enroute section.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR): For Beacon Code procedures see ENROUTE section.

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For procedures and equipment requirements, see Air Traffic Control pages and/or Air Traffic Control State pages for detailed information.

TRANSPONDER SETTING (Secondary Surveillance Radar-SSR) For Beacon Code procedures see Enroute Tab.

RVSM PROCEDURES

REDUCED VERTICAL SEPARATION MINIMUMS (FL290 - FL410) For RVSM procedures and equipment requirements see AIR TRAFFIC CONTROL pages series.